Administrator Machine (Assume breached) Username: Olivia Password: ichliebedich

sudo nmap -sV -sC -A -Pn -sT 10.10.11.42 -p 1-65300

I saw other ports open including winrm and ftp. I could access the machine via winrm with the provided credential but I could not use it for ftp.

I decided to dig dipper for other users with netexec command

netexec smb 10.10.11.42 -u Olivia -p ichliebedich –users > user.txt

This command listed the users on the machine for me and saved the output on user.txt file.

I used this command to get the column I want.

cat user.txt| tr -s ' ' | sed 's/ //' | cut -d ' ' -f4 > user.txt

This can also do it

cat user.txt| gawk '{print \$5}'

I used netexec to spray the password among the users, but did not find anything interesting.

I tried to kerberoast the users, but nothing interesting.

To know the real AD users, I downloaded kerberute and copied it to the /usr/bin folder of my kali and making it executable. Then I executed this command:

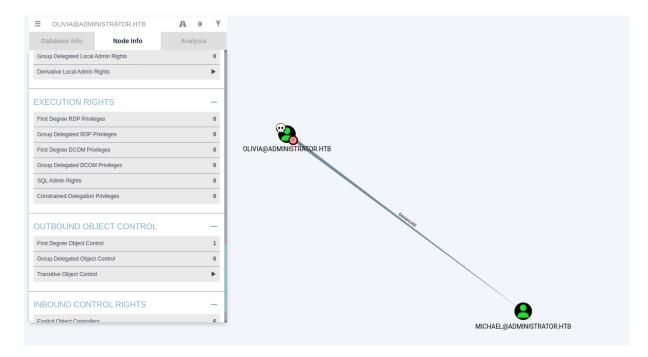
kerbrute userenum -d administrator.htb user.txt --dc 10.10.11.42

User.txt was the worldlists I created from the user list I found earlier.

Next, I went on using bloodhound to enumerate user permissions. First, I extracted the file with bloodhound python.

bloodhound-python -c All -u Olivia -p 'ichliebedich' -d administrator.htb -ns 10.10.11.42 –zip

I started neo4j and then bloodhood. And analysed users starting from olivia.



Olivia has generic all on the user Michael.

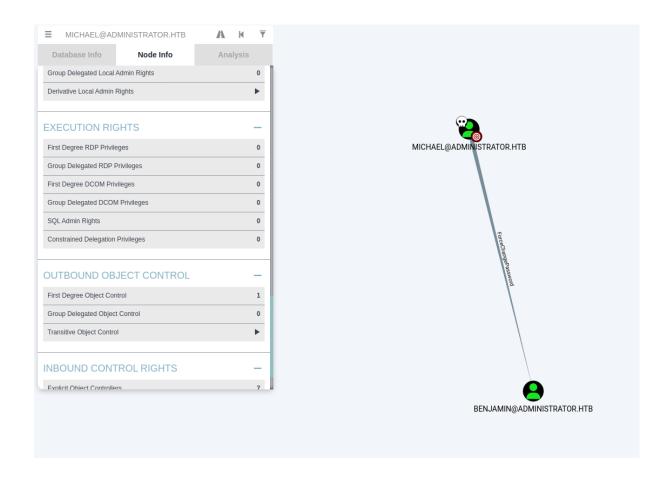
Therefore I was able to change Michael password with this command.

net rpc password "michael" "supersecurep@ssword123" -- user='administrator.htb/michael%supersecurep@ssword123' -S 10.10.11.42

I confirmed it with netexec that the changed worked.

I could not also find anything interesting to do with this user. I decided to go further to enumerate using bloodhound then I noticed that Michael also have forcechangepassword permission on Benjamin.

F

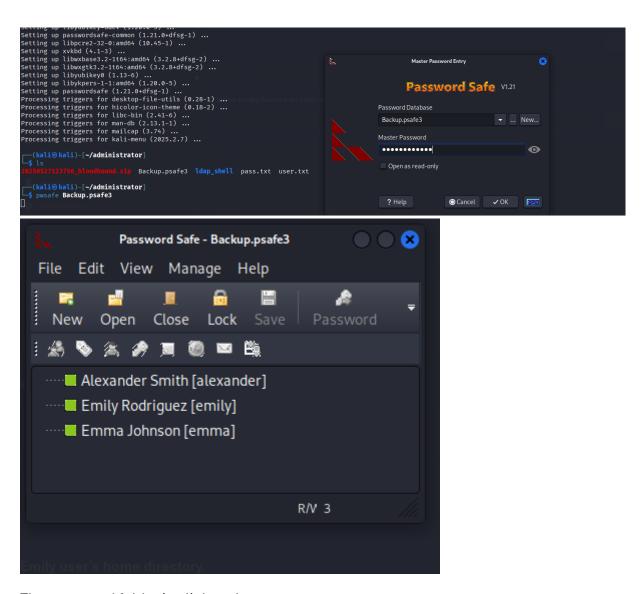


I used the earlier command to change the password of Benjamin. And used it to access the ftp port and downloaded a password file Backup.psafe3.

I cracked the file with hashcat to get the master pass.

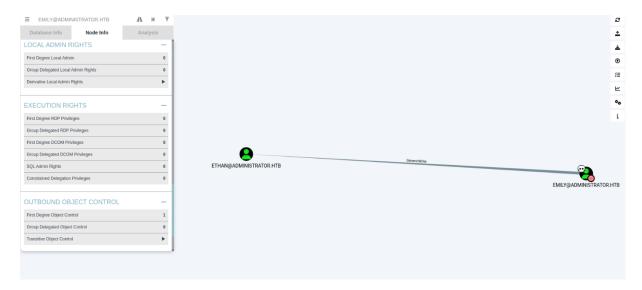
I used an application to open the file and entered the master pass and got the password for user emily.

I got the idea of the application here <a href="https://pwsafe.org/help/pwsafeEN/html/cli.html">https://pwsafe.org/help/pwsafeEN/html/cli.html</a>



The password folder is click and copy

I analysed user emily on bloodhound to see if there is something interesting I could use the user to achieve.



Emily has genericwrite permission to user ethan, I used this link to find how I can abuse this write <a href="https://github.com/k4sth4/Abusing-rights-in-a-Domain">https://github.com/k4sth4/Abusing-rights-in-a-Domain</a>.

I logged in with winrm user the user emily password and set user ethan's user to PreAuth and so by using <u>AS-REP Roasting</u> we can get the user hash and crack it with hascat and get the plaintext password of ethan.

```
(kali@kali)-[-/administrator]

sevil-winRM shell v3.7

Warning: Remote path completions is disabled due to ruby limitation: undefined method 'quoting_detection_proc' for module Reline

Data: for more information, check Evil-winRM GitHub: https://github.com/hackplayers/evil-winrmsRemote-path-completion

Info: Establishing connection to remote endpoint

Evil-winRM PS C:\Users\emily\Documents> whoani
administrator\emily

Fyll-winRM PS C:\Users\emily\Documents> hostname

dc

Evil-winRM PS C:\Users\emily\Documents> cd ..

Evil-winRM PS C:\Users\emily\Dockstop> ls

Directory: C:\Users\emily\Dockstop> ls

Directory: C:\Users\emily\Dockstop> 7:52 AM 34 user.txt

Still-winRM PS C:\Users\emily\Dockstop> cat user.txt
```

```
| Spring | Seal | Seal
```

I continued my bloodhound analysis for user ethan and noticed that this user have DCsync write on the DC. Which means it can share information with the DC.

I used impacket-secretsdump to request for user hashes from the DC and then used winrm and the administrator hash to access the DC as administrator.